TOYOTA

Toyota Motor North America, Inc. 1588 Woodridge Avenue Ann Arbor, Michigan 48105

August 6, 2020
Mr. Allen Lyons, Chief
Emissions Certification and Compliance Division
California Air Resources Board
9480 Telstar Avenue, Suite 4
El Monte, CA 91731

Subject: Voluntary Emissions Recall Report for Toyota Safety Recall Campaign 20TA10 on Certain Toyota 2013-2015 Model Year (MY) Prius, 2014-2017MY Prius V Vehicles Inverter and CARB Approval Letter #F-2020-067 dated July 16, 2020

Toyota launched the subject campaign on July 24, 2020. Approximately 266,637 total units are affected by this campaign. The 20TA10 instructs any authorized Toyota dealer to update the hybrid system software FREE OF CHARGE. For customer satisfaction, if the vehicle has experienced an inverter failure with certain hybrid system faults related to this condition, the inverter assembly will be repaired or replaced FREE OF CHARGE. The involved vehicles were designed to enter a failsafe driving mode in response to certain hybrid system faults. Toyota has found that in rare situations, the vehicle may not enter a fail-safe driving mode as intended. If this occurs, the vehicle could lose power and stall. While power steering and braking would remain operational, a vehicle stall while driving at higher speeds could increase the risk of a crash. The subject vehicles were not involved in Safety Recall J0V because they were originally equipped with the E0E/F0R version of the software, used to control the boost converter in the Intelligent Power Module (IPM) within the inverter assembly of the vehicle's hybrid system, that contains improved thermal management. On June 24, 2020, Toyota filed a Defect Information Report (DIR) with the National Highway Traffic Safety Administration (NHTSA) informing the agency of our intent to conduct a voluntary Safety Recall 20TA10.

This campaign affects 94,405 California vehicles. OBD is not affected. This campaign will incorporate the California Department of Motor Vehicle (DMV) Registration Renewal/Recall Tie-in Program, consistent with the current CARB COVID-19 policy. Owners will be unable to register or sell their vehicles if the subject campaign is not completed and a Proof of Correction (POC) form is not issued.

Pursuant to the requirements outlined in Part 85 (Subpart T) of 40 CFR, Toyota has issued the attached Emissions Defect Information Report (EDIR) #TOYOTA-DIR-20200714 on July 14, 2020, Field Fixies (#15-TF-37, 14-TF-48, 13-TF-60) on October 30, 2018 and (#17-TF-66, 16-TF-95 and 15-TF-48) (revised) on June 25, 2020. The applicable letters and Technical Instructions (TI) for this campaign are also attached for your reference. If you have any further questions or need additional information regarding this matter, please contact Mr. Arvon Mitcham of my staff at (734) 995-5587 or arvon.mitcham@toyota.com.

Sincerely,

William Meschievitz

Group Manager

Powertrain Certification and Compliance

Will Mr

cc: Mr. Wong, Mr. Ho – Field Operations/Warranty Section S177 States: State of CT, DE, ME, MD, MA, NJ, NY, OR, PA, RI, VT, WA 1. Description of Potentially Affected Vehicles

Make(s)	<u>Model</u> <u>Year(s)</u>	Model(s)	Test Group(s)	Engine(s)	Approximately Potentially Affected Vehicles
Toyota	2013	Prius	DTYXV01.8HC3	2ZR-FXE	10
Toyota	2014	Prius	ETYXV01.8HC3	2ZR-FXE	60,559
Toyota	2014	Prius V	ETYXV01.8CCU	2ZR-FXE	10,313
Toyota	2015	Prius	FTYXV01.8HC3	2ZR-FXE	144,266
Toyota	2015	Prius V	FTYXV01.8CCU	2ZR-FXE	22,659
Toyota	2016	Prius V	GTYXV01.8PCU	2ZR-FXE	13,099
Toyota	2017	Prius V	HTYXV01.8P3U	2ZR-FXE	15,731

Number of the affected vehicles is approximately 266,637 total units and approximately 94,405 California units. For S177 States, the number of vehicles is: MA=5,646; ME=1,282; NJ=3,629; NY=9,957; VT=950

2. Description of Modification or Repair

The hybrid system software will be updated FREE OF CHARGE. For customer satisfaction, if the vehicle has experienced an inverter failure with certain hybrid system faults related to this condition, the inverter assembly will be repaired or replaced FREE OF CHARGE.

3. Owner's Name and Address

Toyota uses lists and addresses provided by IHS Markit and, when there is no IHS data available, Toyota will use internal company sales lists to notify owners of affected vehicles.

4. Eligibility for Repair

Any authorized Toyota dealer will update the hybrid system software FREE OF CHARGE.

5. Owner Procedure

The notification will include a recommendation that the owners contact any authorized Toyota dealer to schedule an appointment to have the remedy performed as soon as possible.

6. Performance of Repair

The software update will take approximately 45 minutes to complete. If the inverter needs to be repaired or replaced, the repair could take up to 7.5 hours. However, depending upon the dealer's work schedule, it may be necessary to make the vehicle available for a longer period of time.

7. Letter of Notification to Owners

Toyota sent an owner notification by first class mail starting on July 24, 2020, advising owners to make an appointment with their authorized Toyota dealer.

8. Parts Supply

Toyota confirmed that an adequate supply of parts is available.

9. Repair Instructions

A copy of the **TI** for safety recall campaign 20TA10 is attached.

10. Impact on Fuel Consumption, Drivability and Safety

This repair will not affect fuel economy, drivability and/or safety. This repair will address the safety defect that we notified NHTSA about on June 24, 2020.

11. Completion Label

Completed vehicles will be tracked through the Toyota Technical Information System (TIS).



Toyota Motor Engineering & Manufacturing North America, Inc.

Vehicle Safety & Compliance Liaison Office Mail Stop: W4-2D 6565 Headquarters Drive Plano, TX 75024

June 24, 2020

DEFECT INFORMATION REPORT

1. Vehicle Manufacturer Name:

Toyota Motor Corporation ["TMC"] 1, Toyota-cho, Toyota-city, Aichi-pref., 471-8571, Japan

Affiliated U.S. Sales Company:

Toyota Motor North America, Inc. ["TMNA"] 6565 Headquarters Drive, Plano, TX 75024

Manufacturer of Hybrid Control ECU:

DENSO CORPORATION

1-1, Showa-cho, Kariya-city, Aichi, 448-8661, Japan

Telephone: +81-566-25-5511

DENSO TEN Limited

2-28, Gosho-dori 1-chome, Hyogo-ku, Kobe-city, Hyogo, 652-8510, Japan

Phone: +81-78-671-5081 Country of Origin: Japan

2. Identification of Involved Vehicles:

Make/Car Line	Model Year	Manufacturer	Production Period
Toyota / Prius	2013-2015		March 15, 2013 through November 9, 2015
Toyota / Prius v	2014-2017	TMC	June 20, 2014 through November 30, 2017

Applicability	Part Number	Part Name	Component Description
MY2013-2015 Toyota Prius	89681-47440 89681-47441 89681-47250 89681-47251	Computer, Power Management Control	
MY2014-2017 Toyota Prius v	89681-47030 89681-47422 89981-47630	Computer, Power Management Control Computer, Hybrid Vehicle Control (2017MY)	Hybrid Control ECU

NOTE: (1) Although the involved vehicles are within the above production period, not all vehicles in this range were sold in the U.S.

(2) Other Toyota or Lexus vehicles do not use the same hybrid control ECU and software as the involved vehicles or are involved in Safety Recall 18V-684.

3. Total Number of Vehicles Potentially Involved:

Prius v : 204,835 Prius v : 61,802 Total : 266,637

4. Percentage of Vehicles Estimated to Actually Contain the Defect:

Unknown. Toyota is unable to provide an estimate of the percentage of vehicles to actually contain the defect. Whether the issue in each case will lead to damage of the transistor within the inverter assembly and subsequently lead to a shutdown of the hybrid system, creating an unreasonable risk to safety, depends on each vehicle's operating conditions.

5. Description of Problem:

The subject vehicles were not involved in Safety Recall 18V-684 because they were originally equipped with a version of the software, used to control the boost converter in the Intelligent Power Module (IPM) within the inverter assembly of the vehicle's hybrid system, that contains improved thermal management. Repeated driving under certain identified high-load driving patterns (e.g., from a stop, applying nearly full throttle and then gradually further accelerating to full throttle) could cause higher thermal stress in specific transistors in the IPM, resulting in damage to those transistors over time. This can lead to illumination of various warning lights and the display of a warning message on the instrument panel. In cases where a specific transistor fails in a certain way during a high-load driving condition, such as during hard acceleration, there is a possibility for an abnormally high voltage to be generated that could

exceed a certain limit in the software and IPM circuit design causing the hybrid system to shut down instead of entering a failsafe driving mode that would provide reduced motive power and allow the vehicle to be driven for certain distances. In this condition, power steering and braking will not be affected. However, a hybrid system that shuts down without entering a failsafe mode could result in the vehicle losing motive power while driving at higher speeds, increasing the risk of a crash.

6. Chronology of Principal Events:

October 2018

On October 4, 2018, Toyota filed Safety Recall 18V-684, which did not include the subject vehicles. Because the subject vehicles contained the improved thermal management logic when new, Toyota judged that it was unlikely that they would be affected by the condition in that recall. However, Toyota continued monitoring the field information for the subject vehicles and collecting field parts for analysis.

August 2019 - January 2020

By this time, Toyota had recovered a number of inverter assemblies from the subject vehicles from the U.S market indicating potential hybrid inverter failure. Toyota investigated the recovered inverter assemblies and found certain damaged transistors in the IPM. However due to extent of the damage, the cause of the damage was not able to be identified.

As the field cases, up to this point, occurred predominantly in North America, Toyota hypothesized that there could be a previously unknown difference in the driving conditions in North America that could explain the different field experience in North America.

Thus, Toyota sought to compare the driving conditions between Japan and North America. To do so, Toyota collected and analyzed driving data from a number of vehicles that were of another Toyota hybrid model, capable of communicating driving data wirelessly, that is sold in both regions. (As the subject Prius and Prius v vehicles are not capable of communicating driving data wirelessly, a different hybrid model was used.) Through this data, Toyota identified that there are potential differences between Japan and North America, in terms of vehicle speed and accelerator pedal application angle, under certain driving conditions, e.g., accelerator application patterns used to achieve rapid acceleration from very low speed.

Based on these findings, Toyota began testing to understand the potential effects of this type of driving pattern (where full throttle is applied from a stop) on the relevant transistors in the subject vehicles. In parallel, in order to determine whether the driving patterns observed from the other hybrid model are similar to the driving patterns of Prius and Prius *v* drivers who have experienced these transistor failures, Toyota began collecting driving data from some customers who previously experienced this type of transistor failure by installing a recording device with the customer's permission.

February 2020 - Early-June 2020

At this time, Toyota concluded the aforementioned testing to understand the potential effects on these transistors in the subject vehicles when they are exposed to a driving pattern where full throttle is applied from a stop. In this testing, temperature in the transistors for the boost converter did not increase to a point which could cause damage to the transistors.

Based on this result, Toyota believed that there may be further differences in the driving pattern which could contribute to generating a higher temperature in these transistors. Based on closer analysis of the driving data of the Prius customers who agreed to have a recording device installed, it was found that the unique driving pattern from these customers was not an application of full throttle from a stop. Instead it was a pattern where, from a stop, the driver would apply the accelerator pedal rapidly up to approximately two third opening position and then gradually further accelerate to full throttle.

Further testing and analysis were conducted using this newly identified driving pattern and similar driving patterns. This revealed that if the driver applies nearly full throttle from a stop and then gradually further accelerates to full throttle, the temperature generated in transistors for the boost converter could increase unexpectedly, beyond the levels created under prior testing where full throttle is applied directly from a stop.

Throughout this investigation, Toyota was also able to collect data from some vehicles that potentially experienced hybrid inverter failure that was retrieved when the vehicle was serviced by a dealer (i.e., freeze frame data contained within the hybrid control ECU). At this time, Toyota was able to complete its detailed review and analysis of the available freeze frame data. Through this analysis, Toyota identified eight data records that indicated that the hybrid system in a subject vehicle shut down instead of entering a failsafe driving mode due to an abnormally high voltage being generated.

Based on a result of the investigation above, it was found that, in spite of the improved thermal management logic in the software that was originally equipped in the subject vehicles, thermal damage could occur in certain transistors if the vehicle is exposed to repeated driving under certain identified high-load driving patterns over time. In cases where a specific transistor fails in a certain way during a high-load driving condition, such as during hard acceleration, a large counter-electromotive voltage could be generated by the motor/generator at a capacitor within the IPM. This large voltage, higher than the system limit, could be generated by the increase in RPM of the internal combustion engine and the motor generator attached to the engine. If this were to occur, the hybrid system could shutdown, by design, in order to protect the system from electrical damage. In this condition, power steering and braking will not be affected. However, a hybrid system that shuts down without entering a failsafe mode could result in the vehicle losing motive power while driving at higher speeds, increasing the risk of a crash.

June 18, 2020

Toyota decided to conduct a voluntary safety recall campaign.

As of June 10, 2020, based on a diligent review of records, Toyota's best engineering judgment is that there is one Toyota Field Technical Report and there are seven warranty claims that have been received from U.S. sources that relate to the condition investigated in this chronology and which were considered in the decision to submit this report.

7. Description of Corrective Repair Action:

To address the safety defect, all known owners of the subject vehicles will be notified by first class mail to return their vehicles to a Toyota dealer to have a software update for the hybrid system performed at no cost.

For customer satisfaction, if the vehicle has experienced an inverter failure with certain hybrid system faults related to this condition, the inverter assembly will be repaired or replaced, prior to software update, at no cost.

Reimbursement Plan for pre-notification remedies

The owner letter will instruct vehicle owners who have paid to have this condition remedied prior to this campaign to seek reimbursement pursuant to Toyota's General Reimbursement Plan.

8. Recall Schedule:

Notifications to owners will be sent by August 23, 2020. A copy of the draft owner notification will be submitted as soon as it is available.

9. Distributor/Dealer Notification Schedule:

Notifications to distributors/dealers will be sent by June 24, 2020. Copies of dealer communications will be submitted as they are issued.

10. Manufacturer's Campaign Number:

[Interim / Remedy] 20TB10 / 20TA10

TOYOTA

Toyota Motor North America, Inc. 1588 Woodridge Avenue Ann Arbor, Michigan 48105

July 14, 2020

EDIR-VERR Coordinator Compliance Division U.S. Environmental Protection agency 2000 Traverwood Drive Ann Arbor, Michigan 48105

Re: Submission of Emissions Defect Information Report for Certain 2013-2015 Model Year (MY) Toyota Prius vehicles and 2014-2017MY Toyota Prius V vehicles Inverter

Pursuant to the requirements outlined in Part 85 (Subpart T) of 40CFR, we are providing an Emissions Defect Information Report (EDIR) on the model listed in paragraph 3 of this Defect Report. The subject vehicles were not involved in Safety Recall J0V because they were originally equipped with a version of the software, used to control the boost converter in the Intelligent Power Module (IPM) within the inverter assembly of the vehicle's hybrid system, that contains improved thermal management. Repeated driving under certain identified high-load driving patterns (e.g., from a stop, applying nearly full throttle and then gradually further accelerating to full throttle) could cause higher thermal stress in specific transistors in the IPM, resulting in damage to those transistors over time. On June 24, 2020, Toyota filed the attached Defect Information Report (DIR) with the National Highway Traffic Safety Administration (NHTSA) informing the agency of our intent to conduct a voluntary Safety Recall 20TA10. Attached are also Field Fixes #15-TF-37, 14-TF-48, 13-TF-60 submitted on October 30, 2018, and #18-TF-59, 17-TF-66, 16-TF-95 and 15-TF-48 submitted on June 24, 2020 regarding to this concern for our reference.

If you have any questions regarding this matter, please contact Mr. Arvon Mitcham of my staff at (734) 995-5587 or email: arvon.mitcham@toyota.com.

Sincerely,

William Meschievitz Group Manager Powertrain Certification and Compliance

cc: Mr. Allen Lyons Chief, California Air Resources Board – Emissions Certification and Compliance Division

Manufacturer's Corporate Name
 Toyota Motor Corporation
 1, Toyota-Cho, Toyota-City
 Aichi, 471-8571, JAPAN

Affiliated U.S. Importing Company Toyota Motor North America, Inc 6565 Headquarters Drive Plano, TX 75024, U.S.A

2. Description of the Defect

The subject vehicles were not involved in Safety Recall JoV because they were originally equipped with a version of the software, used to control the boost converter in the Intelligent Power Module (IPM) within the inverter assembly of the vehicle's hybrid system, that contains improved thermal management. Repeated driving under certain identified high-load driving patterns (e.g., from a stop, applying nearly full throttle and then gradually further accelerating to full throttle) could cause higher thermal stress in specific transistors in the IPM, resulting in damage to those transistors over time. This can lead to illumination of various warning lights and the display of a warning message on the instrument panel. In cases where a specific transistor fails in a certain way during a high-load driving condition, such as during hard acceleration, there is a possibility for an abnormally high voltage to be generated that could exceed a certain limit in the software and IPM circuit design causing the hybrid system to shut down instead of entering a failsafe driving mode that would provide reduced motive power and allow the vehicle to be driven for certain distances. In this condition, power steering and braking will not be affected. However, a hybrid system that shuts down without entering a failsafe mode could result in the vehicle losing motive power while driving at higher speeds, increasing the risk of a crash.

3. Description of Vehicles Potentially Affected

Make(s)	<u>Model</u> <u>Year(s)</u>	<u>Model(s)</u>	Test Group(s)	Engine(s)	Approximately Potentially Affected Vehicles
Toyota	2013	Prius	DTYXV01.8HC3	2ZR-FXE	10
Toyota	2014	Prius	ETYXV01.8HC3	2ZR-FXE	60,559
Toyota	2014	Prius V	ETYXV01.8CCU	2ZR-FXE	10,313
Toyota	2015	Prius	FTYXV01.8HC3	2ZR-FXE	144,266
Toyota	2015	Prius V	FTYXV01.8CCU	2ZR-FXE	22,659
Toyota	2016	Prius V	GTYXV01.8PCU	2ZR-FXE	13,099
Toyota	2017	Prius V	HTYXV01.8P3U	2ZR-FXE	15,731

4. <u>Number of the Affected Vehicles and the Address of the Plants at Which the Affected Vehicles Were</u> Produced

- (1) Number of affected vehicles Approximately 266,637 units
- (2) Addresses of the Manufacturing Plant
 Toyota Motor Corporation, Takaoka Plant
 1 Sanko, Honda-Cho, Toyota-City, Aichi, Japan

Toyota Motor Corporation Tsutsumi Plant 1, Umanokashira, Tsutsumi-Cho, Toyota-City, Aichi, Japan

TOYOTA-DIR-20200714

5. Evaluation of Emissions Impact and Description of Drivability Problems

Emissions Impact: Emissions Impact is not expected.

Drivability Impact: Drivability will be impacted if the vehicle enters a failsafe driving mode or

there is a hybrid system shut down due to this condition.

Fuel Economy Impact: Fuel Economy impact will be minimal in the case of a hybrid system

shutdown or in the case of the vehicle entering a failsafe driving mode

where power will be restricted.

6. Emission Data Related to the Defect

There is no emission data available at this time.

7. Anticipated Manufacturer Follow-up

Safety Recall Campaign 20TA10

Field Fixes #15-TF-37, 14-TF-48, 13-TF-60 submitted on October 30, 2018

#18-TF-59, 17-TF-66, 16-TF-95, 15-TF-48 submitted on June 24, 2020

TOYOTA

Toyota Motor North America, Inc. 1630 W. 186th St. Gardena, CA 90248 (310) 787-5500

October 30, 2018

TTC-18115

Ms. Annette Hebert Chief, ECARS Division California Air Resources Board 9480 Telstar Avenue, Suite 4 El Monte, CA 91731

SUBJECT: Submission of Field Fixes 15-TF-37, 14-TF-48, 13-TF-60, 12-TF-72, 11-TF-68 and 10-TF-90

Dear Ms. Hebert:

In accordance with the provisions of 40 CFR§86.1842-01 and §86.1844-01(f), Toyota is providing for review the subject Field Fixes for the following test groups:

MYs	F/F	Test Groups	Models	Engine
2015	15-TF-37	FTYXV01.8HC3	Prius	
2014	14-TF-48	ETYXV01.8HC3	Prius	
2014	14-11-40	ETYXV01.8CCU	Prius v	
2013	13-TF-60	DTYXV01.8HC3	Prius	
2013	13-11-00	DTYXV01.8CCU	Prius v	2ZR-FXE
2012	12-TF-72	CTYXV01.8HC3	Prius	
2012	12-11-/2	CTYXV01.8CCU	Prius v	
2011	11-TF-68	BTYXV01.8HC3	Prius	
2010	10-TF - 90	ATYXV01.8HC3	Prius	

The purpose of these Field Fixes is to maintain vehicle driving performance when inverter malfunction occurs. (OBD-related)

The following information is attached for review:

- Explanation of Field Fixes
- Revised Application Pages (Applicable to 10MY-15MY Application)

If you have any questions regarding this matter, please contact Mort Smith of our office at 310/787-5647 or email him at: mort.smith@toyota.com.

Sincerely,

Kevin D. Webber

Director

Product Regulatory Affairs

la D. W.M.

attachment

CC: Mr. Yong Yu

1. Applicability

MYs	F/F	Test Groups	Models	Engine
2015	15-TF-37	FTYXV01.8HC3	Prius	
2014	14-TF-48	ETYXV01.8HC3	Prius	
2014	14-11-40	ETYXV01.8CCU	Prius v	
2013	13-TF-60	DTYXV01.8HC3	Prius	
2013	13-11-00	DTYXV01.8CCU	Prius v	2ZR-FXE
2012	12-TF-72	CTYXV01.8HC3	Prius	
2012	12-11-12	CTYXV01.8CCU	Prius v	
2011	11-TF-68	BTYXV01.8HC3	Prius	*
2010	10-TF-90	ATYXV01.8HC3	Prius	

2. Purpose

The purpose of these Field Fixes is to maintain vehicle driving performance when inverter malfunction occurs. (OBD-related)

3. Contents of Modification

The subject vehicles contain software used to control the Intelligent Power Module (IPM) within the inverter assembly, a part of the vehicle's hybrid system. If a specific transistor within the IPM fails in a certain way during a high-load driving condition, such as during hard acceleration, there is a possibility for an abnormally high voltage to be generated that could exceed a certain limit in the software and IPM circuit design. If this abnormally high voltage is generated, there is the possibility that the hybrid system could shut down instead of entering a failsafe driving mode that would provide reduced motive power and allow the vehicle to be driven for certain distances. To address this issue, Toyota will update the Hybrid Control Module's (HCM) software through a field action (safety recall). In addition, the new software will support a further enhancement to the failsafe driving modes to provide for increased available speed and range under more circumstances in the event of a failure requiring failsafe driving.

Later Model Year (MY) 2014 Prius and MY 2015 Prius vehicles are not covered by the field action (safety recall) to update the software. However, if HCM replacement is necessary in the field for other reasons in these Prius vehicles, an HCM containing the new software will be installed due to parts commonization. Therefore, the 2015MY Prius is included in this Field Fix.

4. Effect on Emissions

Toyota judges that these modifications have no impact on emissions or fuel economy.

5. Parts List

Part name: Hybrid Control Module

Model	MYs	Part nu	ımbers	Calibrat	ion IDs
iviodei	IVIIS	Before	After	Before	After
	2015, 2014	89681-47252	89681-47253	896B34747200	896B34747300
	2013	89681-47443	89681-47444	896B34736300	896B34736400
Prius	2012	89681-47304	89681-47305	896B34720400	896B34720500
	2011	89681-47216	89681-47217	896B34714600	896B34714700
	2010	89681-47089	89681-47380	896B34701900	896B34732000

Model	MYs	Part nu	ımbers	Calibra	tion IDs
Model	MIS	Before	After	Before	After
	2014	89681-47422	89681-47423	896B34727300	896B34761100
Prius v	2013	07001-4/422	09001-4/423	690D34727300	690D34701100
rnus v	2012	89681-47183	89681-47184	896B34764000	896B34761100
	2012	89681-47342	89681-47343	896B34761000	896B34761100

1.02.00 Engine Control Module (ECM), Calibration ID (CID) and Calibration Verification Number (CVN)

osel Year	essel Year Manufacturer	Model	Engine Size	Transmission	Test Group	Module 1D	ECM	CALID	ČĄ.	Note
	TOYOTA	PRIUS	8.1	A/F	FTYXV01.8HC3	SOTES	00571 47500			Main
2015	точота	PRIUS	æ	Α/T	FTYXV01.8HC3	\$07E8	0.607 l=100.60	A4701000	611F6EF2	Sub
2015	TOYOTA	PRILIS	3,8	ΑΛΤ	FTYXV01,8HC3	\$0758	00001 47603	34754100	2D6958A5	Main
2015	TOYOTA	PRIUS	8	A/T	FTYXV01.8HC3	\$0758	140/4-100/8	A4701000	611F6EF2	Sub
2015	TOYOTA	PRIUS	8.	ΑΛΤ	FTYXV01.8HC3	\$07.58	F03F6 13700	34754200	A383CB7A	Main Fredd fix 15-17-02
2015	TOYOTA	PRIUS	8	A/T	FTYXV01.8HC3	\$0758	7457 1-10040	A4701000	611F6EF2	Sub Freld Fix 15-TF-02
2015	TOYOTA	PRIUS	82	A/T	FTYXV01.8HC3	\$07EA	80681 47761	896B34747100	35B5F9D9	Main
2015	TOYOTA	PRIUS	35	A/T	FTYXV01.8HC3	\$07EA	67691 - 1077	896B57602000	AEOCAB38	Sub
2015	TOYOTA	PRIUS	88	ΑΛΤ	FTYXV01.8HC3	\$07EA	C3(LF 40700	896B34747200	6F4ACF60	Main Reld Fix 15-TF-06
2015	TOYOTA	PRIUS	8.1	ΑT	FTYXV01.8HC3	SOTEA	767/1-10360	896B57602000	AE0CAB38	Sub Field Fix 15-TF-96
2015	TOYOTA	PRIUS	8.1	A/T	FTYXV01.8HC3	SOTEA	60.001	\$96B34747300	TBD	Main Field Fix 15-TF-37
2015	TOYOTA	PRIUS	80	AЛ	FTYXVOLSHC3	\$07EA	2001	896B57602000	AE0CAB38	Sub Field Fix 15-TF-37

Page: 1.2-1 Issued: 12/01/2014 15-TF-02: 08/26/2015 15-TF-06: 11/19/2015 15-TF-37: 10/31/2018

1.02,00 Engine Control Module (ECM), Calibration ID (CID) and Calibration Verification Number (CVN)

***************************************		**************************************								
Model Year	Rodel Year Manufacturer	Niodel	Engine Size	Transmission	Test Group	Module ID	ECM	CALID	CVN	Note
2014		·	1.8	ΛŢ	ETYXV01.8HC3	SOTES	90214 17700	34754000	SAELAAIS	Main
2014	тоуота	PRIUS	8.1	ΑT	ETYXV01.8HC3	S07E8	6708 i ~ (270	A4701000	611F6EF2	Sub
2014	TOYOTA	PRIUS	1.8	ΛΛ	ETYXV01.8HC3	S07E8	00023 47801	34754100	2D6958A5	Main Ramaing Change 14-1R-29
2014	тоуота	PRIUS	1,8	Απ	ETYXV01,8HC3	\$07E8	170/1-180/0	A4701000	611F6EF2	Sub Running Change 14-TR-39
2014	тоуота	PRIUS	oc.	W.T	ETYXV01.8HC3	\$07E8	FR2FA 12360	34754200	A383CB7A	Main Field Fix 14-TF-28
2014	royora	PRIUS	1.8	A/T	ETYXV01.8HC3	\$37ES	87501 4- 10578	A4701060	611176277	Sub Field Fix 14-TF-28
2014	TOYOTA	PRIUS	80	A/I	ETYXV01,8HC3	\$075A	03647 69700	896B34747000	2DADD1A1	
2014	TOYOTA	PRIUS	1.8	A/T	ETYXV01.8HC3	\$97EA	63061 - 6306	896B57602000	AE0CAB38	Sub
2014	TOYOTA	PRIUS	88	A/T	ETYXV01.8HC3	\$07EA	13667 \$ 8708	896B34747100	35B5F9D9	Main Running Change 14-TR-18
2014	TOYOTA	PRIUS	1.8	A/T	ETYXV01.8HC3	\$07EA	63661 1636	896B57602000	AE0CAB38	Sub Running Changa 14-TR-18
2014	TOYOTA	PRIUS	80	Α/T	ETYXV01,8HC3	SOTEA	Cacti Wand	896B34747200	6F4ACF60	Main Peld Fix 14-TF-31
2014	TOYOTA	PRIUS	1.8	N.T	ETYXV01.8HC3	\$97EA	2021 to 10000	896357602000	AEOCAB38	Sub Field Fix 14-TF-3;
2014	rovora	PRIUS	1.8	A/T	ETYXV01.8HC3	SOTEA	9869: A7742	896B34747300	TBD	Main Field Fix 14-TF-48
2014	TOYOTA	PRIUS	æ	A/T	ETVXV01.8HC3	\$07EA	672/ 18674	896B57602000	AF!!CAB38	Sub Piedlė Fix 14-7 P-48

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1,02,00 Engine Control Module (ECM), Calibration ID (CID) and Calibration Verification Number (CVN)

lodel Year	lodel Year Manufacturer	Model	Engine Size	Transmission	Test Group	Madule ID	BCM	CALID	CAS	Note
2014	TOYOTA	PRIUSV	1.8	AG	ETYXV01.8CCU	\$0758	0,000	34751000	8D3140F7	Vair
2014	TOYOTA	PRHJS v	30	AT	ETYXV01.8CCU	SOTES	8900 L-4 / 300	A4701000	611F6EF2	qnS
2014	TOYOTA	PRIUS v	1.8	ACT	ETYXV01.8CCU	\$07.58	1724 17700	34751100	2EE83BA9	Nain Ranning Change 14-TR-29
2014	TOYOTA	PRIUS v	8 1	N.T.	ETYXV01.8CCU	\$0758	190/4-100/0	A4701600	611F6EF2	Sub Ruming Change 14-7R-29
2014	TOYOTA	PRIUS v	8.1	ΑT	ETYXV01.8CCU	\$07E\$	C23LV 13708	34751200	FOELSEPE	Main Field Fix 14-TF-28
2014	TOYOTA	PRIUS V	8	À,T	ETYXVOLSCCU	832.0\$	700/ 1-10000	A4701000	61186882	Sub Field Fix 14-1Y-28
2014	TOYOTA	PRIUS V	8C	AA	ETYXW01.8CCU	SUTEA	10828 10700	896834727200	975DD67D	Main
2014	TOYOTA	PRIUS v	8	MT	ETYXV61.SCCU	S07EA	07001-477	896B54712060	18E210AC	qnS
2014	TOYOTA	PRIUS v	38	ΑΛΤ	ETYXV01.8CCU	SUTEA	rcsrs : 9300	896B34727300	26DDC41D	Mann Running Change 14-TR-22
2014	TOYOTA	PRIUS v	83	A/T	ETYXV01.8CCU	\$07EA	775.74	896854712000	18E210AC	Sub Running Chenge 14-TR-22
2014	TOYOTA	PRIUS V	82.5	ΑT	ETYXV01,8CCU	SOTEA	STATE SOLO	896834761100	TBD	Main Running Chango 14-TF-18
2014	TOYOTA	PRIUS v	1.8	AAT	ETYXV01,8CCU	SUTEA	CZ+1 100.00	896B54712000	ISEZIOAC	Sub Running Change 14-TF-48
2014	TOYOTA	CT 200%	80	AIT	ETYXV61,8CCU	SU7E8	98637.12300	37608000	SF92CD24	Main
2014	тоуота	CT 200h	æ.	A/T	ETYXV01,8CCU	\$07E8	03.007.107.00.00	A4701000	61176872	Sub
2014	royota	CT 200h	1.8	A/F	ETYXV01.8CCU	\$07E8	90661.76081	3760\$100	5DE99AF0	Main Field Fix 14-1F-28
2014	TOYOTA	CT 200k	85	A/T	ETYXV81.8CCU	\$0758	1900 0 1000	A4701000	611F6EF2	Sub Field Fix 14-1F-28
2014	royora	CT 200h	1.8	AM	ETYXV01.8CCU	\$07EA	0213616306	896837613000	BR6E68FC	Maia
2014	TOYOTA	CT 200h	82	AG	ETYXV81.8CCU	SOTEA	020007-10170	896B57603000	900D42CC	Sub

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1,02,00 Engine Control Module (ECM), Calibration ID (CID) and Calibration Verification Number (CVN)

Model Year	Model Year Manufacturer	Model	Engine Size	Transmission	Test Grous	Module 1D	ECM	CALID	Š	Nate
2013	TOYOTA	PRIUS	8.1	A/T	DTYXV01,8HC3	\$07E8		34734000	03C64B87	Main
2013	TOYOTA	PRILIS	95	ΑΠ	DTYXV61,8HC3	\$0758	9X651~471X6	A4701008	611F6EF2	Sub
2013	TOYOTA	PRIUS	5K	, TA	DTYXV01.8HC3	SOTES	10122 17700	34734100	FBD7EEBS	Main Running Change 13-TR-22
2013	TOYOTA	PRIUS	8.1	λſŢ	DTYXV01,8FIC3	\$976\$	3,450 1-4/1A1	A4701000	611F6EF2	Sub Rumaing Change (3-TR-22
2013	TOVOTA	PRIUS	эс 	A/T	DTYXV01.8HC3	SOTES	CO1127 13300	34734200	XC2B050E	Main Field Fix 13-119-24
2013	TOYOTA	Sana	80	AG	DTYXV01.8HC3	\$0768	7617 7-10060	A4701000	611F6EF2	Sub Field Fix 13-TF-24
2613	TOYOTA	PRIUS	8 1	AT	DTYXV01.8HC3	SOTES	00221 47103	34734300	E18E1163	Main Freid Fix 13-TF-46
2013	TOYOTA	PRIUS	8	A/T	DTYXV01,8HC3	\$9758	\$3001-4-173	A4701006	611F6EF2	Sub Freid Fix 13-TF-46
2013	TOYOTA	PRIJS	8 1	Ast	DTYXV01,8HC3	\$0758	800CV 1 X2008	34734400	EEC2C643	Main Fiold Fix 13-TF-48
2013	тоуота	PRIUS	8 1	A/T	DTYXV01.8HC3	SOTES	4407 + 1240	A4701000	SHIF6EF2	Sub Field Fix 13-TF-48
2013	TOYOTA	PRIUS	98) 	AUT	DTYXV01.8HC3	SOTEA	04204 10300	\$96B34736000	72AA1864	Main
2013	TOYOTA	PRIUS	8	AVT	DTYXV01.8HC3	SUTEA	27621-4-1626	896857602000	AE0CAB3%	Sub
2013	TOYOTA	PRRIS	80	A/I	DTYXV01,8HC3	SUTEA	19867 18708	896834736100	SC71B512	Main Running Change 13-TR-25
2013	тоуота	PRIUS	89	AVT	DTYXV01.8HC3	SOTEA	37007-1-1-1-1	896B57602000	AEOCAB38	Sub Running Change 13-TR-25
2013	TOYOTA	PRIUS	1.8	AUT	DTYXV01,8HC3	\$07EA	CARTA 19309	896B34736200	56A922F1	Main Freid Fix 13-TF-14
2013	TOYOTA	PRHIS	8.1	AT	DTYXV01,8HC3	SOTEA	744/4-Tep/o	896857602000	AE0CAB38	Sub Field Fix 13-TF-14
2013	тоуота	PRHJS	8 1	AVT	DTYXV61.8HC3	\$07EA	07/(83 47447	896B34736300	75A7DA3F	Main Field Fix 13-TF-51
2013	TOYOTA	PRIUS	8.1	AVT	DTYXV01,8HC3	SUTEA	C++/+-10070	896857602000	AEOCAB38	Sub Freid Fix 13-179-51
2013	TOYOTA	PRIUS	8.1	A/T	DTYXV01,8HC3	SOTEA	0000 A7444	895B34736400	TRD	Main Pield Fix 13-TF-60
2013	TOYOTA	PRIUS	8.1	AJT	DTYXV01,8HC3	SOTEA	tt:/k.78060	896B57602000	AEOCAB38	Sub Field fix 13-TF-60

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1,02,00 Engine Control Module (ECM), Calibration ID (CID) and Calibration Verification Number (CVN)

Model Year	Manufacturer	Madei	Engme Size	i ransmission	Test Group	Module ID	ECM	CALIB	S	Note
2013	TOYOTA	PRIUS v	85	A/T	DTYXV01.8CCU	\$0758	17000 17700	34725100	24A980CA	Main
2013	TOYOTA	PRIUS v	82	ΑΛΈ	DIVXV01,8CCU	\$3.03 \$0.05	93091=10039	A4701000	611F6EF2	ab
2013	ТОУОТА	PRIUS v	\$.	AG	DTYXV01.8CCU	\$0758	C / 124 8 1 3 3 5 0 10	34725200	6040A0B4	Main Running Change 13-TR-22
2013	TOYOTA	PRIUS v	1.8	ΑT	DTYXV01.8CCU	\$07E8	200/ I I 90/8	A4701000	611F6EF2	Sub Running Change 13-TR-22
2013	тоуста	PRUS v	8.1	A/T	DTYXV01,8CCU	\$07E8	00661 47963	34725300	F78DB2D4	Main Field Fix 13-TF-24
2013	TOYOTA	PRIUS v	80	AJT	DTYXV01.8CCU	\$07E8	C05/ 1-100%	A4701000	611F6EF2	8ub Freid fix 13-7F-24
2013	TOYOTA	PRIUS v	8.	AT	DTYXV01.8CCU	\$0728	00001 47004	34725400	F6AE3E88	Main Field Fix 13-7F-46
2013	TOYOTA	PRIUS v	80,1	A/T	DTYXV01.8CCU	\$0758	+000/ + 10004	A4701000	611F6EF2	Sub Field fix 13-TF-46
2013	TOYOTA	PRIUS v	8.	AG	DTVXV01,8CCU	\$0728	20661 47366	34725500	EA3ABACF	Main Field Fix 13-TF-48
2013	TOYOTA	PRIUS v	8:3	A/T	DIYXV01.8CCU	\$07.58	70774470078	A4761000	611F6EF2	Sub Field Fix 13-7F-48
2013	TOYOTA	PRIUS V	80.	ΑΠ	DTYXV01.8CCU	SOTEA	9000 i 49400	896B34727100	89337E62	Main
2013	TOYOTA	PRUS v	80.	ACT	DTVXVIII.8CCU	SOTEA	02001	896B54712000	ISEZIOAC	qnç
2013	TOYOTA	PRIUS v	×	AG	DTYXV01.8CCU	\$07EA	00001 47471	896834727200	075DD67D	Main Running Change 13-fR-25
2013	ТОУОТА	PRIUS v	80	AT	DIYXV01,8CCU	\$07EA	174/ 1 10060	896854712000	18E210AC	Sub Running Change 13-TR-25
2013	тоуота	PRIUS v	8.1	A/T	DTYXV01.8CCU	SOTEA	0.000	896B347Z7300	26DDC41D	Main Field Fix 13-TF-18
2013	TOYOTA	PRIUS V	æ0 	A/T	DTYXV01.8CCU	\$07EA	771-/3-19069	896854712000	18E210AC	Sub Field fix 13-7F-18
2013	TOYOTA	PRIUS v	8.1	A/T	DTYXV01,8CCU	SOTEA	00000 47893	896834761100	OBL	Main Field Fix 13-7F-60
2613	точота	PRIUS V		AIT	DTYXV01.8CCU	SOTEA	8708 (mt/4%)	896854712000	18E210AC	Sub Field Fix 13-TF-40
2013	TOYOTA	CT 280h	88	A/T	DIVXV01,8CCU	\$0728	80751 25031	37601100	5AFEF421	Main
2013	тоуотл	CT 200h	30	ΑΠ	DTYXV01.8CCU	\$0758	67607-76071	A4701000	GIIFGEFT	dus
2013	TOYOTA	CT 2006	80.	A/F	DTYXV01,8CCU	\$07E8	C1026 13208	37601200	F69B9274	Main Running Change 13-TR-22
2013	TOVOTA	CT 200h	8.	ΑΤ	DTYXV01.8CCU	\$0758	21007-10076	A4701000	611166572	Sub Kunning Change 13-TR-22
2013	TOYOTA	CT 200h	×	Απ	DTYXV01.8CCU	\$0758	\$107£ 1770e	37601300	EE7E1567	Main Field Fix 13-TF-46
2013	TOYOTA	CT 280h	80,	ME	DIYXV01,8CCU	\$07E8	cipol-tones	A4701000	611F6EF3	Sub Freid Fix 13-TF-46
2013	тоуотл	CT 200h	8	AIT	DTYXV01.8CCU	\$07.58	90%21.750td	3760)400	BCAC6172	Main Field Fix 13-17-48
2013	TOYOTA	ET 2006	89	AT	DTYXV01.8CCU	S07E8	25001-10000	A4701000	61176872	Sub Pred Fx 13-TF-48

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1.02.00 Engine Control Module (ECM), Calibration ID (CTD) and Calibration Verification Number (CVN)

Model Year	Model Year Manufacturer	Model	Engine Size	Transmission	Test Group	Module ID	ECM	CALID	CVIX	Note
2013	тоуота	CT 200h	1.8	A./T	DTYXVOLSCCU	SOTEA	07076 (4700	896B37606000	69000009	Main
2013		CT 200h	æ;	λΛ	DTYXVel.8CCU	\$07EA	50001-10060	896B57602000	AEOCAB38	
		CT 200h	1.8	A/T	DTYXV01.8CCU	\$07EA	13021 1000	896B37606100	(C3CDFB)	Man Running Change 13-TR-23
		CT 200h	3,8	AT	DTVXV01.8CCU	\$07EA	10001-10000	896B57602000	AE0CAB38	Sub Running Change 13-TR-23
2013	royora	CT 200h	1.8	ΔT	DTYXV01.8CCU	SOTEA	07454 46505	896B37606200	B4C292F2	Main Pield Fix 13-TF-32
2013		CT 200h	3.8	A/T	DTYXV01.8CCU	\$07EA	0,0001=100,007	896B57602000	AEOCAB38	Sub Field fix 13-7F-32

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1.02.00 Engine Control Module (ECM), Calibration ID (CID) and Calibration Verification Number (CVN)

odel Year	odel Year Manufacturer	odel Year Manufacturer Model	Engine Size	Transmission	Test Group	Module ID	ECM	CALID		
2012	TOYOTA	Prius	80	AST	CTVXV01.8HC3	\$0758	90571 47100	34734600	03C64B87	Main For Job#1 Running Change 12-TR-05
2012	TOYOTA	Pries	36 	AT	CTYXV61.8HC3	SOTES	02001-1120	A4701066	611F6EF2	
2012	TOYOTA	Prius	1.8	ACF	CTVXV01,8HC3	\$07E\$	14114 17346	34734100	FBD7EEB5	Main Field Fix 12-TF-15
2012	TOYOTA	Prius	8 -	AT	CTYXV01.8HC3	SOTES	67001-4/171	A4701000	611F6EF2	Sub Freid Fix 12-TF-15
2012	TOYOTA	Prius	80.	ΑſĨ	CTVXV01.8HC3	\$0758	CUILY 17708	34734200	SCZBOSOE	Main Field Fix 12-TF-40
2012	TOYOTA	Pnus	8.1	AT	CTYXV61.8HC3	SOTES	22001-41127	A4701000	KIIFEET	Sub Freid Fix 12-TF-40
2012	TOYOTA		1.8	AA	CTYXV01.8HC3	SOTER	60661 47103	34734300		Main Freid Fix 12-TF-56
2012	точота	Prius	8	ΑΠ	CTYXV01,8HC3	\$07E\$	771111111111111111111111111111111111111	A4701006	61186552	Sub Field Fix 12-TF-56
2012	точота	Prins	1.8	AA	CTYXV01.8HC3	SOTER	80661 47104	34734400	EEC2C643	Main Field Fix 12-TF-59
2012	TOYOTA	Prius	1.8	ΑΠ	CTVXV01,8HC3	\$07E8	2 March 14 / 1 / 14	O.	611868572	Sub Field Fix 12-TF-59

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1.02.00 Engine Control Module (ECM), Calibration ID (CID) and Calibration Verification Number (CVN)

odel Year	odel Year Manufacturer	Model	Engine Size	Transmission	Test Graup	Module 113	ECM	CAL 110	CN	Note
2012	TOYOTA	Prius	æ	ACT	CTYXV01.8HC3	\$07EA	V C C C C C C C C C C C C C C C C C C C	Ω.	7BIFAE75	Main
2012	TOYOTA	Prius	1.8	A/T	CTYXV01,8HC3	SOTEA	250 i=1 200	896B54708000	7D7463F9	Sub
2012	TOYOTA	Prins	æ	ΝT	CTYXV01.8HC3	SOTEA	10/02	896B34720100	DBE90BD9	Main Runsing Change 12-TR-21
2012	TOYOTA	Prius	1.8	A/F	CTYXV01.8HC3	\$07EA	97081-47501	896B54708000	7D7403F9	Sub Running, Change 2-TR-21
2012	TOYOTA	Prins	38	ACE	CTYXV01.8HC3	SUTEA	4000 A9309	896B34720200	DD870998	
2012	TOYOTA	Prius	8.3	W.T	CTYXV01,8HC3	\$07EA	706/1004	896854708000	7D7403F9	Sub Running Change 12-TR-35
2012	TOYOTA	Prius	3¢	ΔŒ	CTYXV01.8HC3	SUTEA	00/601 37700	896B34720300	844FCBAS	Main Field Bix 12-TP-31
2012	TOYOTA	Prius	1.8	A/T	CTYXV01.8HC3	\$07EA	8708) 1903	896854708000	713740359	Sub Field Fir 12-TF-31
2012	TOYOTA	Prius	88.	A/T	CTYXV01,8HC3	S07EA	1000 10000	896B34720400	2C9B666E	Main Pield Fix 12.TF-64
2012	тоуота	Prius	26	λπ	CTYXV01.8HC3	\$117EA	62061-4/204	896B54708000	7D7403F9	Sub field Rix 12-TP-64
2012	TOYOTA	Prius	30	ÀT	CTYXV01.8HC3	SOTEA	90/91-47205	896834720500	TBD	Main Pield Fix 12-TF-72
7017	TOYOTA	Prins	30	AA	CTYXV01.8HC3	SUTEA	Carrie	99	7D7403F9	Sub Field Fix 12-1F-72

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1.02.00 Engine Control Module (ECM), Calibration ID (CID) and Calibration Verification Number (CVN)

Model Year	dodel Year Manufacturer	Model	Engine Size	Transmission	Test Group	Module 1D	ECM	CALID	Z. C.	Note
2012	TOYOTA	Prius v	en .	AG	CTVXV01.8CCU	\$37.05	07000 17700	34725500	\$6D5CAB5	Main
2012	TOYOTA	Prius v	8.1	A/T	CTYXV61.8CCU	SOTER	2900 H 1000	A4701006	611F6EF2	
2012	тоуота	Prius v	18	AT	CTYXV01.8CCU	\$07E8	17604 17700	34725100	24A900CA	Main Rungiag Change 12-TR-04
2012	TOYOTA	Prinsv	1.8	A/T	CTYXV01.8CCU	SOTES	100/4-100/6	A4701000	611F6EF2	
2012	TOYOTA	Prins v	821	AJT	CTYXV01.8CCU	\$0758	E7668 17788	34725200	6040A0B4	Main Field Fix 12-TF-15
2012	TOYOTA	Prius v	1.8	AG	CTYXV01.8CCU	\$07E8	7071 - 10040		61376272	Sub Preld Fix 12-TF-15
2012	TOYOTA	Prins v	8-1	Α/Ţ	CTYXV01,8CCU	\$0758	C7668 17700	34725300	F78DB2D4	Main Field Fix (2-175-40
2012	TOYOTA	Prius v	8.	ΛŢ	CTYXV01.8CCU	\$0758	Far/a	A4701000	611168.F2	Sub Field Fix 12-TP-40
2012	TOYOTA	Prins v	8	A/T	CTYXV01 SCCU	SOTER	N3664 1 2300	34725400	F6AE3E88	
2012	TOYOTA	Prins v	87	ACF	CTYXV01.8CCU	\$07.58	-05/ h-150	A4701000	611F6EF2	Sub Field Pix 12.TF-56
2012	TOYOTA	Prius v	1.8	AT	CTYXV01.8CCU	\$07.58	27527 47300	34725500	EA3ABACF	Main Freid Fix 12-TF-59
2012	TOYOTA	Prius v	80	AST	CTYXV01.8CCU	\$07E8	000/1-17020		611F6EF2	Sub Field Fix 12-TF-50

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1.02.00 Engine Control Module (ECM), Calibration ID (CID) and Calibration Verification Number (CVN)

1 2 2		, ,			***************************************					
Model Tear	Model Tear Mangiacturer	Model	Engme Size	Fransenssam	lest Group	Wadsie ii	ECM	CAL ID	Z.	Nase
2012	TOYOTA	Prins v	82	ACT	CTYXV01.8CCU	\$07EA	00167 10700	896B34711000	RD9FB164	Main
2012	TOYOTA	Prins v	8.	A/T	CTVXV01.8CCU	SOTEA	92091-4-190	896B54705000	001EA7B0	Sab
2012	TOYOTA	Vius v	8 7	7.7	CTYXV01.8CCU	\$07EA	10101 10700	896B34711100	AF4002CC	Main
2012	TOYOTA	Prins v	e0 	W.T.	CTVXV01.8CCU	SOTEA	59097-471637	896854705100	BACEIOCO	Sub
2012	TOYOTA	Prius v	8:1	A/T	CTYXV01.8CCU	\$07EA	100000	896B34727100	89337E62	Misin Running Change 12-TR-38
2012	тоуота	Prins v	8'1		CTYXV01.8CCU	\$07EA	701/3-100/9	896B54705100	BACE10C0	Sub Running Change 12-TR-38
2012	TOYOTA	Prius v	87	A/T	CTYXV01.8CCU	S07EA	COS C. V. 19709	896B34764000	SFFSBD34	Main Field Fix 12-TF-57
2012	TOYOTA	Prius v	87	A/f	CTYXV01.8CCU	\$07EA	2001 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	896854705100	BACE10C0	Sub Freid Fix 12-17-57
2012	TOYOTA	Prius v	3.8	A/T	CTVXV01.8CCU	SOTEA	0000	896834761100	TBD	Main Field Fix 12-TF-72
3612	TOYOTA	Prins v	8'1	A/T	CTYXV01.8CCU	\$07EA	to: / h bocks	896B54705100	BACE10C0	Sub Freid Fix 12-TP-72
2012	TOYOTA	Prins v	60	ν.	CTVXV01.8CCU	SOTEA	0,54,4300	896B34727000	9362B()04	Main Running Change 12-1R-23
2012	TOYOTA	Prius v	85.7	AVF	CIYXV01.8CCU	SOTEA	050200000	\$96B54709000	182E1060	Sub Running Change 12-TR-23
2012	тоуота	Prius v	8	AAT	CTYXV01.8CCU	\$07EA	90591,4727.	896834727100	89337862	Main Running Change 12-1R-35
2012	TOYOTA	Prius v	80	AAT	CTYXV01.8CCU	\$07EA	***************************************	896B54709000	182E1060	Sub Running Change 12-1R-35
2012	TOYOTA	v suis	8.7	A/T	CTYXV01.8CCU	SOTEA	77271 10700	896B34761000	23F6C136	Main Field Fix 12-TF-57
2012	TOYOTA	Prius v	80	AJT	CTYXV01.8CCU	\$07EA	786/4-19069	896B54709000	182E1060	Sub Field Fix 12-TF-57
2012	TOYOTA	Prus v	3S	A/T	CIYXV01.8CCU	\$07EA	00601 37227	896B34761100	TBD	Mann Field Fix 12-TF-72
2012	TOYOTA	Prins v	80	AST	CTYXV01.8CCU	\$07EA	Der de Tondo	896B54709000	182E1060	Sub Field Fix 12-TF-72

Page: 1.2-1 Issued: 12/01/2011 12-TR-23: 02/27/2012 12-TR-35: 06/21/2012 12-TR-38: 09/11/2012 12-TF-57: 07/13/2015 12-TF-72: 10/31/2018

1.02.00 Engine Control Module (ECM), Calibration ID (CID) and Calibration Verification Number (CVN)

Model Year	Model Year Manufacturer	Mindel	Engine Size	Transmission	Test Group	Module ID	ECM	CALID	CAN	Note
3011	TOYOTA	Prins	80	8/3	BTYXV61,8HC3	\$0788	00000 17700	34728000	3B100020	
2011	TOYOTA	Prins	30	ATI	BTYXV61,8HC3	\$345 \$04 \$6	0x67 + 105x0	A4701000	611F6EF2	Sub
2011	TOYOTA	Prius	80	A/T	BTVXV01.8HC3	\$0728	60663 47283	34728100	2E8B3C74	Main Running Change 11-TR-39
2011	TOYOTA	Prius	1.8	A/T	BTYXV01,8HC3	\$07E8	67601 -1 771	A4701000	611F6EF2	Sub Running Change 11-TR-39
2011	TOYOTA	Prius	80	A/T	BTYXV01.8HC3	\$07E8	19547 13203	34728200	11E30C09	Main Pield Fiz. 13-TF-38
2011	TOYOTA	Prius	95	A/T	BTYXV01.8HC3	\$07E8	760/3-70060	A4761000	611F6EF2	Sub Field Fix 11-TF-38
2011	точота	Prius	80	,6,7T	STYXV01,8HC3	\$07E8	\$0661.47303	34728300	829AS17F	Main Field Fix 3 1-TF-49
2011	TOYOTA	Prius	90	A/T	BTYXV0L8HC3	\$0758	07001-4/372	A4701000	611F6EF2	Sub Freid Fix 11-1F-49
2011	TOYOTA	brus	3 ²	AAT	BTYXV01,8FIC3	83408	NOCE 1 2700	34728400	DC0917C4	Main Field Fix 11-7F-58
2011	TOYOTA	Prins	30,	ΑΛΤ	STYXV01,8HC3	\$0758	030m; 14/234	A4701000	611F6EF2	
2011	TOYOTA	Prius	8.7	A/T	BTYXV01.8HC3	\$07E\$	\$0000 47306	34728500	EBF44D59	
7011		Prius	9C)	:	BTYXV61.8HC3	\$07E8	67551 -4 733	A4701006	611F6EF2	Sub Freid Fix 11-TF-60

Page: 1.2-1 Issued: 12/01/2010 11-TR-39; 09/27/2011 11-TF-38; 02/14/2013 11-TF-49; 06/16/2014 11-TF-58; 06/22/2015 11-TF-60; 08/26/2015

1,02,00 Engine Control Module (ECM), Calibration ID (CID) and Calibration Verification Number (CVN)

Model Year	Model Year Manufacturer	Model	Engine Size	Transmission	Test Group	Module 1D	ECM	CAL ID	CVN	Note
2011	TOYOTA	Prius	1.8	•	BTYXV01.8HC3	SOTEA	01100 10705	896B34714000	C33DAFC0	Main
2011	тоуота	Prius	av 	A/T	BTYXV01.8HC3	\$07EA	017/5-10050	896B54701100	85A5D17C	que
2011	TOYOTA	Prins	8.	A/T	BTYXV01.8HC3	SOTEA	09/00: 4:0:13	896B34714100	FBD948DD	
2013	TOYOTA	Prius	85	A/T	BTYXV01.8HC3	\$07EA	87081-071	896B54701100	B5A5D17C	Sub Running Change 11-TR-27
3011	тоуота	Prius	1.8	AAT	BTYXV01.8HC3	\$07EA	C1677 10200	896B34714200	CCEBB718	Main Running Change 11-TR-33
2011	тоуота	Prius	& 	Α⁄T	BTYXV01,811C3	\$07EA	217/1-120/0	896B54701100	B5A5D17C	Sub Running Change 11-TR-33
1102	TOYOTA	Prius	8.	A/T	BTYXV0L3HC3	\$07EA	60061 47313	896B34714300	6779E726	Main Field Fix 11-TF-16
2011	точота	Prius	1.8	A/F	BTYXV01.8HC3	\$07EA	a70a1—12.3	896854701100	BSASD17C	Sub Eseld fix 11-TF-16
3011	TOYOTA	Prius	1.8	ΑΛΓ	BTYXV01.8HC3	S07EA	7 (CEF 19708	896B34714400	50578E9F	Main Field Fix 11-TF-25
2011	TOYOTA	Prius	1.8	A/T	BTYXV01,8HC3	\$07EA	17/ tu 100/00	896B54701100	B5A5D17C	Sub Field Fix 11-1F-25
3011	точота	Prius	8:1	A/T	BTYXV01.8HC3	\$07EA	31666 10700	896834714500	136E9772	Main Pield Fix 11-TF-45
2011	TOYOTA	Prius	8.5	A/T	BTYXV01.8HC3	\$07EA	0300	896B54701100	8545017C	Sub Field Fix 11-17-45
2013	точота	Prius	8	A/F	BTYXV01,8HC3	V31.0S	20000 00200	896834714680	5B64AF93	Main Field Fix 11-TF-64
2011	тоуота	Prius	1.8	AT	BTYXV01.8HC3	\$07EA	0.07/ - 100.00	896B54701100	BSASD17C	Sub Field Fx 11-1F-64
2011	royora	Prius	85	M.T	BTYXV01.8HC3	\$07E.A	80681-47317	896834714700	TBD	Main Field Fix 11-TE-68
2011	FOYOTA	Prius	8	A/T	BTYXV01.8HC3	\$07EA	07.00	896B54701100	B5A5D17C	Sub Pield fix 11-7F-68

Page: 1.2-1 Issued: 12/01/2010 Revised: 01/10/2011 11-TR-27: 01/20/2011 11-TR-33: 07/11/2011 11-TF-16: 02/13/2012 11-TF-25: 06/21/2012 11-TF-45: 01/29/2014 11-TF-64: 11/19/2015 11-TF-68: 10/31/2018 11-TF-68: 10/31/2018

1,02,00 Engine Control Module (ECM), Calibration ID (CID) and Calibration Verification Number (CVN)

Model Year	Model Year Manufacturer	Model	Engine Size	Transmission	Test Group	Module 1D	ECM	CALID	K.S	Note
2010	TOYOTA	Prius	200	A/3	ATYXV01.8HC3	\$0758	02024 13308	34715000	0AC66A3A	
2010	TOYOTA	Prius	1.8	A/T	ATYXV01.8HC3	\$07E8	(W)77 1 200.00	A4701000	613F6EF2	Sub
2010	TOYOTA	Prius	8.1	ΑΛΤ	ATYXV01.8HC3	\$0788	17007 17700	34715100	1E927B3A	Main
2010	TOYOTA	Prins	8.	A/T	ATYXV01,8HC3	S07E8	107/5-10060	A4701000	613F6EF2	Sub
2010	TOYOTA	Prius	8.1	AVT	ATYXV01.8HC3	\$07E8	13118 13308	34715200	2E91499F	Main Running Change 10-3'R-20
2010	TOYOTA	Prius	85	A/T	ATYXV01,8HC3	\$0758	707/1-105/0	A4701000	613F6EF2	Sub Running Change 10-TR-20
2910	TOYOTA	Prius	8.1	A/T	ATYXV01.8HC3	\$0728	03668 13300	34715300	F47D4022	Main Field Fix 10-TF-27
2010	ТОУОТА	Prius	3.5	Α/T	ATYXV01,8HC3	\$0758	02001-4/253	A4701000	611F6EF2	Sub Field Fix 10-TF-27
2010	TOYOTA	Prius	8	A/T	ATYXV01.8HC3	S07E8	\$0661 A776A	34715400	6F07F39D	Main Freid Fix. 10-7P-59
2010	TOYOTA	Prius	89	A/T	ATYXV01.8HC3	\$07E8	*0000	A4701000	611F6EF2	Sub Field Fix 10-TF-59
2010	TOYOTA	Prius	89	AG	ATYXV01,8HC3	\$07E\$	470L4 17500	34715500	EAC146A1	Main Field Fix 10-7F-71
2910	_	Prius	82	A/T	ATYXV01,8HC3	\$07E8	C07/ +- 150/4	A4701000	613F6EF2	Sub Freid Fix. 10-TF-71
2010	TOYOTA	Prins	8 1	A/T	ATYXV01,8BC3	\$0758	23C4 13388	34715600	CA016D85	Main Field Fix 10-TF-80
2010	точота	Prins	1.8	Α/T	ATYXV01,8HC3	\$07E8	007/1-700/0	A4701000	613F6EF2	Sub Freid Fix 10-TF-80
2010	TOYOTA	Prius	32	Αſ	ATYXV01.8HC3	\$07E8	1711V 17788	34715700	4772AF79	Main Field Fix 16-TF-82
2010	TOYOTA	Prius	1.8	A/T	ATYXV01,8HC3	S07E8	10714-10040	A4701000	611F6EF2	Sub Field Fix 10-TF-82

Page 12-1 Issued: 12/01/2009 10-TR-20: 07/31/2009 10-TF-27/09/27/2011 10-TF-59/02/14/2013 10-TF-71:06/16/2014 10-TF-80:06/22/2015 10-TF-82:08/26/2015

1.02.00 Engine Control Module (ECM), Calibration ID (CID) and Calibration Verification Number (CVN)

Model Year	Manufacturer	Model	Engine Size	Transmission	Test Group	Module 1D	ECM	CALIB	SVN	Note
2010	точота	Prius	8.8	AVT	ATVXV01.8HC3	\$97EA	000001	896B34701000	990528F0	Main
2010	TOYOTA	Prins	82	AG	ATYXV01.8HC3	SOTEA	950/4-199/8	896B54701000	07201B82	aub
2010	TOYOTA	Prius	ak;	AVE	ATVXV01,8HC3	SOTEA	14021 44081	896B34701100	TEFAECAB	Main
2010	TOYUTA	Prius	1.8	A/T	ATYXV01.8HC3	\$07EA	670al-4/001	896B54701000	07201B82	Sub
2010	TOYOTA	Prius	30	ΑΛΤ	ATYXV01.8HC3	SUTEA	F30F7 : 9708	896834701200	68E6EC17	Main Running Change 10-TR-29
2010	тоуота	Prins	æ.	A/T	ATYXV01.8HC3	\$07EA	2902 - 18068	896854701000	07201B82	Sub Runaing Change 10-TR-29
2010	TOYOTA	Prius	8.1	À./T	ATYXV01.8HC3	\$07EA	000000	896B34701306	C43386AD	Main Ruming Change 10-TR-33
2010	TOYOTA	Prius	80	ACE	ATVXV01.8HC3	SOTEA	6340 th 1000	896B54701000	07201B\$2	Sub Runaing Change 16-TR-33
2010	TOYOTA	Prius	1.8	A/T	ATYXV01,8PIC3	SOTEA	2000 12000	896B34701400	D6A04F3B	Man Field Fix 10-TF-10
2010	тоуота	Prius	8C (ΑΛ	ATYXV01,8HC3	\$07EA	020011004	896B54701100	B5A5D17C	Sub Field Fix 10-TF-10
2010	TOYOTA	Prius	8 -	ACT	ATYXV01,8EEC3	SOTEA	50566 50505	896834701500	C2040956	Main Field Fix 10-TF-15
2010	TOYOTA	Prius	8	AT	ATYXV01.8HC3	SUTEA	0300	896B54701100	B5A5D17C	Sub Field Fix 10-TF-15
2010	TOYOTA	Prins	oc.	ΔŢ	ATYXV01,8HC3	SOTEA	78027 19708	896B34701600	82388A6D	Main Freid Fix 10-TF-40
2010	TOYOTA	Prius	60 	AJŢ	ATYXV01.8HC3	SOTEA	78628	896854701100	BSASD17C	Sub Pold Fix 10-7F-40
2010	TOYOTA	Prius	85.7	A/T	ATYXV01,8HC3	\$07EA	40581-47087	896B34701700	794B3BBB	Man Freid Fix 10-1F-48
2010	TOYOTA	Prius	90	ANT	ATYXV01.8HC3	\$07EA	70070	896854701100	BSASD17C	Sut Feld Fiz. 10 TF-48
2010	TOYOTA	Frius	3C 7	A/I	ATYXV01,8HC3	\$07EA	05047 10750	896B34701800	79E0EDC6	Main Field Fix 10-TF-66
2010	TOYOTA	Prius	1.8	AJT	ATYXV01.8HC3	\$07EA	6200110000	896884701100	BSASDI7C	Sub Field Ex. 10-TF-66
2010	TOYOTA	Prius	\$.3	AJT	ATYNV01.8HC3	S07EA	09000 19000	896B34701900	BDE94532	Mann Freid Fix 10-7F-86
2010	тоуота	Prius	ox;	AT	ATYXV01,8HC3	SOTEA	63/01/03/	896B54701100	B5A5D17C	Sub Freiß Fix 10-11F-86
2610	TOYOTA	Prius	1.8	A/T	ATYXV01.8HC3	\$07EA	00001 47390	896B34732000	TBD	Main Field Fix 10-TF-90
2010	TOYOTA	Prius	1.8	A/T	ATYXV01.8HC3	SOTEA	09671-18078	896B54701100	B5A5D17C	Sub Field Fix 10-TF-90

Page: 1.2-1 Issued: 12/01/2009 10-TR-29:10/19/2009 10-TR-33:12/21/2009 10-TF-16:10/18/2010 10-TF-15:01/20/2011 10-TF-40:02/13/2012 10-TF-48:06/21/2012 10-TF-66:01/29/2014 10-TF-48:11/19/2015 10-TF-90:10/31/2018



Toyota Motor North America, Inc. 1630 W. 186th St. Gardena, CA 90248 (310) 787-5500

June 25, 2020

Mr. Allen Lyons, Chief Emissions Certification and Compliance Division California Air Resources Board 9480 Telstar Ave., Suite 4 El Monte, CA 91731

Dear Mr. Lyons:

SUBJECT: Submission of Field Fixes 18-TF-59, 17-TF-66, 16-TF-95 and 15-TF-48 < Revision >

In accordance with the provisions of 40 CFR§86.1842-01, §86.1843-01(e)(f), and §86.1844-01(f); Toyota is providing for review the subject Field Fixes for the following test groups:

MY	F/F	Test Group	Model	Engine
2018	18-TF-59	JTYXV01.8P3U		
2017	17-TF-66	HTYXV01.8P3U	Prius v	27D EVE
2016	16-TF-95	GTYXV01.8PCU	Prius v	2ZR-FXE
2015	15-TF-48	FTYXV01.8CCU		

The purpose of this Running Change is to maintain vehicle driving performance when inverter malfunction occurs. (OBD-related) < Revision > (Non-OBD)

The following information is attached for review:

- Explanation of Field Fixes
- Revised Application Pages

If you have any questions regarding this matter, please contact Mike Lord of our office at 310.787.5644 or email: michael.lord@toyota.com.

Sincerely,

Kevin D. Webber General Manager

lan D.W.M.

Sustainability & Regulatory Affairs

attachments

Explanation of Field Fixes 18-TF-59, 17-TF-66, 16-TF-95 and 15-TF-48 < Revision >

1. Applicability

MY	F/F	Test Group	Model	Engine
2018	18-TF-59	JTYXV01.8P3U		
2017	17-TF-66	HTYXV01.8P3U	D	27D EVE
2016	16-TF-95	GTYXV01.8PCU	Prius v	2ZR-FXE
2015	15-TF-48	FTYXV01.8CCU		

2. Purpose

The purpose of this Running Change is to maintain vehicle driving performance when inverter malfunction occurs. (OBD-related) < Revision > (Non-OBD)

3. Contents of Modification

As previously described in the letter of 15-TF-44, 14-TF-53, 13-TF-65 and 12-TF-77 15-TF-37, 14-TF-48, 13-TF-60, 12-TF-72, 11-TF-68 and 10-TF-90, which was submitted in NovOct, 20192018, the subject vehicles contain software used to control the Intelligent Power Module (IPM) within the inverter assembly, a part of the vehicle's hybrid system. If a specific transistor within the IPM fails in a certain way during a high-load driving condition, such as during hard acceleration, there is a possibility for an abnormally high voltage to be generated that could exceed a certain limit in the software and IPM circuit design. If this abnormally high voltage is generated, there is the possibility that the hybrid system could shut down instead of entering a fail-safe driving mode that would provide reduced motive power and allow the vehicle to be driven for certain distances. To address this issue, Toyota will update the Hybrid Control Module's (HCM) software through a field action (safety recall). In addition, the new software will support a further enhancement to the fail-safe driving modes to provide for increased available speed and range under more circumstances in the event of a failure requiring fail-safe driving.

4. Effect on Emissions and Fuel Economy

Toyota judges that these modifications have no impact on emissions or fuel economy.

5. Parts List

Part name: Hybrid Control Module

Engine	Model	MY	Part Ni	umbers	Calibration ID (Main)			
Liigine	Model	101 1	Before	After	Before	After		
2ZR-FXE		2018	89981-47230	89981-47231	899834740000 899856201000	899834740100 899856201000		
	Prius v	2017	89981-47630	89981-47631	899834753000 899856201000	899834753100 899856201000		
		2016 2015	89681-47030	89681-47031	896B34755000 896B54716000	896B34755100 896B54716000		

1.02.00 Engine Control Module (ECM), Calibration ID (CID) and Calibration Verification Number (CVN)

Model Year	Manufacturer	Model	Engine Size	Transmission	Test Group	Module ID	ECM	CAL ID	CVN	Note
2015	тоуота	CT 200h	1.8	A/T	FTYXV01.8CCU	\$07E8	89661-76160	37616000	1A10A330	Main
2015	ТОҮОТА	CT 200h	1.8	A/T	FTYXV01.8CCU	\$07E8	89001-70100	A4701000	611F6EF2	Sub
2015	точота	CT 200h	1.8	A/T	FTYXV01.8CCU	\$07E8	89661-76161	37616100	79BD7B02	Main Field Fix 15-TF-02
2015	TOYOTA	СТ 200h	1.8	A/T	FTYXV01.8CCU	\$07E8	89001-70101	A4701000	611F6EF2	Sub Field Fix 15-TF-02
2015	тоуота	CT 200h	1.8	A/T	FTYXV01.8CCU	\$07EA	89681-76200	896B37617000	BF17E9F8	Main
2015	точота	CT 200h	1.8	A/T	FTYXV01.8CCU	\$07EA	89081-70200	896B57603000	900D42CC	Sub
2015	ТОҮОТА	PRIUS v	1.8	A/T	FTYXV01.8CCU	\$07E8	89661-47630	34758000	335A8E23	Main
2015	ТОҮОТА	PRIUS v	1.8	A/T	FTYXV01.8CCU	\$07E8	89001-47030	A4701000	611F6EF2	Sub
2015	ТОҮОТА	PRIUS v	1.8	A/T	FTYXV01.8CCU	\$07E8	00661 47631	34758100	E6FAA806	Main Field Fix 15-TF-02
2015	ТОҮОТА	PRIUS v	1.8	A/T	FTYXV01.8CCU	\$07E8	89661-47631	A4701000	611F6EF2	Sub Field Fix 15-TF-02
2015	точота	PRIUS v	1.8	A/T	FTYXV01.8CCU	\$07EA	89681-47030	896B34755000	A95152B7	Main
2015	точота	PRIUS v	1.8	A/T	FTYXV01.8CCU	\$07EA	69061-47030	896B54716000	25D94C78	Sub
2015	ТОҮОТА	PRIUS v	1.8	A/T	FTYXV01.8CCU	\$07EA	89681-47031	896B34755100	B32A0067	Main Field Fix 15-TF-44, 15-TF-48
2015	точота	PRIUS v	1.8	A/T	FTYXV01.8CCU	\$07EA	09001-47031	896B54716000	1251394678	Sub Field Fix 15-TF-44, 15-TF-48

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Issued: 12/01/2014 15-TF-02: 08/26/2015 15-TF-44: 11/14/2019 15-TF-48: 06/23/2020

1.02.00 Engine Control Module (ECM), Calibration ID (CID) and Calibration Verification Number (CVN)

Model Year	Manufacturer	Model	Engine Size	Transmission	Test Group	Module ID	ECM	CAL ID	CVN	Note
2016	точота	CT 200h	1.8	A/T	GTYXV01.8PCU	\$07E8	89661-76160	37616000	1A10A330	Main
2016	TOYOTA	CT 200h	1.8	A/T	GTYXV01.8PCU	\$07E8	89001-70100	A4701000	611F6EF2	Sub
2016	TOYOTA	CT 200h	1.8	A/T	GTYXV01.8PCU	\$07E8	00441 74141	37616100	79BD7B02	Main Running Change 16-TR-07
2016	ТОҮОТА	CT 200h	1.8	A/T	GTYXV01.8PCU	\$07E8	89661-76161	A4701000	611F6EF2	Sub Running Change 16-TR-07
2016	точота	CT 200h	1.8	A/T	GTYXV01.8PCU	\$07EA	90691 76370	896B37623000	DC9A323B	Main
2016	ТОҮОТА	CT 200h	1.8	A/T	GTYXV01.8PCU	\$07EA	89681-76270	896B57603000	900D42CC	Sub
2016	TOYOTA	CT 200h	1.8	A/T	GTYXV01.8PCU	\$07EA	00/01/2/071	896B37623100	0A27540F	Main Running Change 16-TR-13
2016	ТОУОТА	CT 200h	1.8	A/T	GTYXV01.8PCU	\$07EA	89681-76271	896B57603000	900D42CC	Sub Running Change 16-TR-13
2016	тоуота	PRIUS v	1.8	A/T	GTYXV01.8PCU	\$07E8	00661 47620	34758000	335A8E23	Main
2016	TOYOTA	PRIUS v	1.8	A/T	GTYXV01.8PCU	\$07E8	89661-47630	A4701000	611F6EF2	Sub
2016	ТОҮОТА	PRIUS v	1.8	A/T	GTYXV01.8PCU	\$07E8	00661 17621	34758100	E6FAA806	Main Running Change 16-TR-07
2016	TOYOTA	PRIUS v	1.8	A/T	GTYXV01.8PCU	\$07E8	89661-47631	A4701000	611F6EF2	Sub Running Change 16-TR-07
2016	TOYOTA	PRIUS v	1.8	A/T	GTYXV01.8PCU	\$07EA	00/01 17020	896B34755000	A95152B7	Main
2016	TOYOTA	PRIUS v	1.8	A/T	GTYXV01.8PCU	\$07EA	89681-47030	896B54716000	25D94C78	Sub
2016	TOYOTA	PRIUS v	1.8	A/T	GTYXV01.8PCU	\$07EA	00/01/47021	896B34755100	TBD	Main Field Fix 16-TF-95
2016	тоуота	PRIUS v	1.8	A/T	GTYXV01.8PCU	\$07EA	89681-47031	896B54716000	25D94C78	Sub Field Fix 16-TF-95
2016	ТОҮОТА	CT 200h	1.8	A/T	GTYXV01.8PCU	\$07EA	Included in	898844708200	6DDD03A4	MG Control Module(1MG-CPU)
2016	TOYOTA	CT 200h	1.8	A/T	GTYXV01.8PCU	\$07EA	PCU	898844709200	DA6CB756	MG Control Module(2MG-CPU)
2016	ТОҮОТА	CT 200h	1.8	A/T	GTYXV01.8PCU	\$07EA	Included in	898844708300	1686932C	MG Control Module(1MG-CPU) Field Fix 16-TF-92
2016	тоуота	CT 200h	1.8	A/T	GTYXV01.8PCU	\$07EA	PCU	898844709200	DA6CB756	MG Control Module(2MG-CPU)
2016	тоуота	PRIUS v	1.8	A/T	GTYXV01.8PCU	\$07EA	Included in	898844712300	E61A6C89	MG Control Module(1MG-CPU)
2016	тоуота	PRIUS v	1.8	A/T	GTYXV01.8PCU	\$07EA	PCU	898844713300	8F4811FA	MG Control Module(2MG-CPU)
2016	тоуота	PRIUS v	1.8	A/T	GTYXV01.8PCU	\$07EA	Included in	898844712400	92AD318F	MG Control Module(1MG-CPU) Field Fix 16-TF-92
2016	тоуота	PRIUS v	1.8	A/T	GTYXV01.8PCU	\$07EA	PCU	898844713300	8F4811FA	MG Control Module(2MG-CPU)

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Issued: 02/01/2017 16-TR-07: 08/26/2015 16-TR-13: 11/19/2015 16-TF-92: 02/28/2020 16-TF-95: 06/23/2020

1.02.00 Electronic control module, Calibration ID (CID) and Calibration Verification Number (CVN)

Model Year	Manufacturer	Model	Engine Size	Transmission	Test Group	Type of control module	Module ID	Part number	CAL ID	CVN	Note
2017	точота	CT 200h	1.8	A/T	HTYXV01.8P3U	ECM	\$07E8	89661-76161	37616100	79BD7B02	Main
2017	тоуота	CT 200h	1.8	Α/T	HTYXV01.8P3U	BCM	\$07E8		A4701000	611F6EF2	Sub
2017	ТОҮОТА	CT 200h	1.8	A/T	HTYXV01.8P3U	Hybrid Control	\$07EA	89681-76271	896B37623100	0A27540F	Main
2017	ТОҮОТА	CT 200h	1.8	A/T	HTYXV01.8P3U	Module	\$07EA		896B57603000	900D42CC	Sub
2017	точота	CT 200h	1.8	A/T	HTYXV01.8P3U	MG Control Module	\$07EA	Included in PCU	898844708200	6DDD03A4	MG Control Module(1MG-CPU)
2017	ТОҮОТА	CT 200h	1.8	A/T	HTYXV01.8P3U	- MG Control Module	\$07EA		898844709200	DA6CB756	MG Control Module(2MG-CPU)
2017	ТОҮОТА	CT 200h	1.8	A/T	HTYXV01.8P3U	- MG Control Module	\$07EA	Included in PCU	898844708300	1686932C	MG Control Module(1MG-CPU) Field Fix 17-TF-62
2017	ТОҮОТА	CT 200h	1.8	A/T	HTYXV01.8P3U	- MG Control Module	\$07EA		898844709200	DA6CB756	MG Control Module(2MG-CPU)
2017	точота	PRIUS v	1.8	A/T	HTYXV01.8P3U	FOM	\$07E8	89661-47800	34775000	34934400	Main
2017	ТОҮОТА	PRIUS v	1.8	A/T	HTYXV01.8P3U	- ECM	\$07E8		A4701000	611F6EF2	Sub
2017	тоуота	PRIUS v	1.8	A/T	HTYXV01.8P3U	Hybrid Control	\$07EA	89981-47630	899834753000	66B0ED70	Main
2017	ТОҮОТА	PRIUS v	1.8	Α/T	HTYXV01.8P3U	Module	\$07EA		899856201000	6D85C844	Sub
2017	ТОҮОТА	PRIUS v	1.8	A/T	HTYXV01.8P3U	Hybrid Control	\$07EA	89981-47631	899834753100	TBD	Main Field Fix 17-TF-66
2017	ТОҮОТА	PRIUS v	1.8	A/T	HTYXV01.8P3U	Module	\$07EA		899856201000	6D85C844	Sub Field Fix 17-TF-66
2017	ТОҮОТА	PRIUS v	1.8	A/T	HTYXV01.8P3U	MC Control Mod 1	\$07EA	Included in PCU	898844712300	E61A6C89	MG Control Module(1MG-CPU)
2017	ТОҮОТА	PRIUS v	1.8	A/T	HTYXV01.8P3U	- MG Control Module	\$07EA		898844713300	8F4811FA	MG Control Module(2MG-CPU)
2017	ТОҮОТА	PRIUS v	1.8	A/T	HTYXV01.8P3U	- MG Control Module	\$07EA	Included in	898844712400	92AD318F	MG Control Module(1MG-CPU) Field Fix 17-TF-62
2017	точота	PRIUS v	1.8	A/T	HTYXV01.8P3U	WG Control Module	\$07EA		898844713300	8F4811FA	MG Control Module(2MG-CPU)

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Issued: 02/01/2018 17-TF-62: 02/28/2020 17-TF-66: 06/23/2020

1.02.00 Electronic control module, Calibration ID (CID) and Calibration Verification Number (CVN)

Model Year	Manufacturer	Model	Engine Size	Transmission	Test Group	Type of control module	Module ID	Part number	CAL ID	CVN	Note
2018	тоуота	PRIUS v	1.8	A/T	JTYXV01.8P3U	- ECM	\$07E8	89661-47840	34779000	1570B428	Main
2018	тоуота	PRIUS v	1.8	A/T	JTYXV01.8P3U	BOM	\$07E8	0,001-47040	A4701000	611F6EF2	Sub
2018	тоуота	PRIUS v	1.8	A/T	JTYXV01.8P3U	Hybrid Control	\$07EA	89981-47230	899834740000	352ABC32	Main
2018	тоуота	PRIUS v	1.8	A/T	JTYXV01.8P3U	Module	\$07EA	69961-47230	899856201000	6D85C844	Sub
2018	тоуота	PRIUS v	1.8	A/T	JTYXV01.8P3U	Hybrid Control	\$07EA	89981-47231	899834740100	TBD	Main Field Fix 18-TF-59
2018	тоуота	PRIUS v	1.8	A/T	JTYXV01.8P3U	Module	\$07EA	69961-47231	899856201000	6D85C844	Sub Field Fix 18-TF-59
2018	тоуота	PRIUS v	1.8	A/T	JTYXV01.8P3U	- MG Control Module	\$07EA	Included in	898844712300	E61A6C89	IMG-CPU
2018	точота	PRIUS v	1.8	A/T	JTYXV01.8P3U	- MG Control Module	\$07EA	PCU	898844713300	8F4811FA	2MG-CPU
2018	точота	PRIUS v	1.8	A/T	JTYXV01.8P3U	MC Control Modulo	\$07EA	Included in	898844712400	92AD318F	IMG-CPU Field Fix 18-TF-51
2018	точота	PRIUS v	1.8	A/T	JTYXV01.8P3U	- MG Control Module	\$07EA	PCU	898844713300	8F4811FA	2MG-CPU

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Issued: 02/01/2019 18-TF-51: 02/28/2020 18-TF-59: 06/23/2020

■ IMPORTANT UPDATE ►

The attached Dealer Letter has been updated. Refer to the details below.

DATE	TOPIC
7/20/2020	The Warranty Reimbursement Procedure section has been updated.
7/28/2020	The Parts Ordering Process section has been updated.
7/8/2020	The Warranty Reimbursement Procedure section has been updated.

The most recent update in the attached Dealer Letter will be highlighted with a red box.

Please review this notification with your staff to assure that all relevant personnel have been briefed regarding this subject.

Thank you for your cooperation.

Toyota Motor Sales, USA, Inc.

6565 Headquarters Drive Plano, TX 75024 (469) 292-4000

Original Publication Date: June 24, 2020

To: All Toyota Dealer Principals, General Managers, Service Managers, and Parts Managers

SAFETY RECALL 20TA10 (Remedy Notice)

Certain 2013–2015 Model Year Prius Certain 2014 – 2017 Model Year Prius V Hybrid System Software Update NHTSA Recall No. 20V–369

Model / Years	Production Period	Approximate Total Vehicles	Approximate Stop Sale Dealer Inventory
Prius / 2013 - 2015	Mid-March 2013 – Early November 2015	204,800	0
Prius V / 2014 -2017	Late June 2014 – Late November 2017	61,800	0

On June 24, 2020, Toyota filed a Defect Information Report (DIR) with the National Highway Traffic Safety Administration (NHTSA) informing the agency of our intent to conduct a voluntary Safety Recall on certain 2013 to 2015 model year Prius and certain 2014 to 2017 Prius V vehicles.

Condition

The involved vehicles were designed to enter a failsafe driving mode in response to certain hybrid system faults. Toyota has found that in rare situations, the vehicle may not enter a failsafe driving mode as intended. If this occurs, the vehicle could lose power and stall. While power steering and braking would remain operational, a vehicle stall while driving at higher speeds could increase the risk of a crash.

Remedy

Any authorized Toyota dealer will update the software for the hybrid system performed *FREE OF CHARGE*. For customer satisfaction, if the vehicle has experienced an inverter failure with certain hybrid system faults related to this condition, the inverter assembly will be repaired or replaced *FREE OF CHARGE*.

Covered Vehicles

There are approximately 266,600 vehicles covered by this Safety Recall. Approximately 120 vehicles were distributed to Puerto Rico.

Owner Letter Mailing Date

Toyota will notify owners by late August 2020. A sample of the owner notification letter has been included for your reference.

Toyota makes significant effort to obtain current customer name and address information from each state through industry resources when mailing owner letters. In the event your dealership receives a notice for a vehicle that was sold prior to the Safety Recall announcement, it is the dealership's responsibility to forward the owner letter to the customer who purchased the vehicle.

Please note that only owners of the covered vehicles will be notified. If you are contacted by an owner who has not yet received a notification, please *verify eligibility by confirming through TIS prior to performing repairs*. Dealers should perform the repair as outlined in the Technical Instructions found on TIS.

Dealer Inventory Procedures

New Vehicles in Dealership Inventory - Reminder

Toyota has not identified any new vehicles in dealership inventory that are covered by this Safety Recall. However, below is a reminder of the dealer's obligations pertaining to Safety Recalls if there are new vehicles in dealership inventory:

Under Title 49, Section 30112 of the United States Code, a dealer cannot sell, offer for sale, or introduce or deliver for introduction in interstate commerce a new motor vehicle when it is aware that the vehicle does not comply with an applicable Federal Motor Vehicle Safety Standard or contains a defect related to motor vehicle safety. Further, 49 Code of Federal Regulations §577.13 requires us to provide the following advisory: It is a violation of Federal law for a dealer to deliver a new motor vehicle or any new or used item of motor vehicle equipment (including a tire) covered by this notification under a sale or lease until the defect or noncompliance is remedied.

Vehicle Safety Recall completion should always be verified through TIS. We request your assistance to ensure involved vehicles are identified and not delivered prior to performing the remedy.

NOTE: Dealers can identify if any of their new and used inventory has any open campaigns in the Vehicle Inventory Summary available in Dealer Daily (**Non SET and GST dealers:** https://dealerdaily.toyota.com/). The Vehicle Inventory Summary may take up to 4 hours to populate information for newly launched campaigns.

Pre-Owned Vehicles in Dealer Inventory

To ensure customer satisfaction, Toyota requests that dealers complete this Safety Recall on any used vehicles currently in dealer inventory that are covered by this Safety Recall prior to customer delivery. However, if the campaign cannot be completed (for example, due to remedy parts availability), delivery of a covered vehicle is acceptable if disclosed to the customer that the vehicle is involved in a Safety Recall.

Toyota expects dealers to use the attached Customer Contact and Vehicle Disclosure Form to obtain vehicle buyer information. Dealers are expected to provide a copy of the completed form, along with the most current

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FAQ, to the vehicle buyer. Toyota and the dealer may use this information to contact the customer when the remedy becomes available.

Keep the completed form on file at the dealership and send a copy to quality_compliance@toyota.com. In the subject line of the email state "Disclosure Form 20TA10/20TB10" and include the VIN.

NOTE: Dealers can identify if any of their new and used inventory has any open campaigns in the Vehicle Inventory Summary available in Dealer Daily (**Non SET and GST dealers:** https://dealerdaily.toyota.com/). The Vehicle Inventory Summary may take up to 4 hours to populate information for newly launched campaigns.

Toyota Certified Used Vehicle (TCUV)

The TCUV policy prohibits the certification of any vehicle with an outstanding Safety Recall, Special Service Campaign, or Limited Service Campaign. Thus, no affected units are to be designated, sold, or delivered as a TCUV until all applicable Safety Recalls, Special Service Campaigns, and Limited Service Campaigns have been completed on that vehicle.

Toyota Rent-A-Car (TRAC) & Service Loaners

Toyota requests that dealers remove all TRAC and Service Loaner vehicles from service that are covered by a Safety Recall unless the defect has been remedied.

Customer Handling, Parts Ordering, and Remedy Procedures

Customer Contacts

Customers who receive the owner letter may contact your dealership with questions regarding the letter and/or the Safety Recall. Please welcome them to your dealership and answer any questions that they may have. A Q&A is provided to assure a consistent message is communicated.

Customers with additional questions or concerns are asked to please contact the Toyota Customer Experience Center (1-888-270-9371) - Monday through Friday, 7:00 am to 7:00 pm, Saturday 7:00 am to 4:30 pm Central Time.

Salvage Title Vehicles

Every attempt should be made to complete an open Safety Recall when circumstances permit, unless noted otherwise in the Safety Recall dealer letter.

For complete details on this policy, refer to Toyota Warranty Policy $\underline{4.17}$, "What Is Not Covered by The Toyota New Vehicle Limited Warranty".

Media Contacts

It is imperative that all media contacts (local and national) receive a consistent message. In this regard, all media contacts must be directed to Tania Saldana (859) 815-9968 in Toyota Corporate Communications. Please do not provide this number to customers. Please provide this contact only to media.

Parts Ordering Process - Non SET and GST Parts Ordering Process

It is possible that parts for this campaign are either required to be ordered in Campaign Part Order Request (CPOR) on Service Lane, or have been placed on Manual Allocation Control (MAC) due to potential limited part availability. Please check the CPOR/MAC report on Dealer Daily for the most up-to-date parts ordering information.

All Safety Recall, Service Campaign (SSC/LSC) parts are eligible for the Monthly Parts Return Program. Please refer to PANT Bulletin <u>2011–087</u> for campaign parts that are currently returnable under the Monthly Parts Return Program and for additional details.

The required Authorized Modification Label to indicate the new software calibration ID can be ordered through the Material Distribution Center (MDC).

Part Number	Description	Quantity
00451-00001-LBL	Authorized Modification Label	25 Per Pack

NOTE: Parts required for repair vary by model year and repair. Refer to the Technical Instructions for diagnostic procedure.

Inverter component or assembly replacement **MAY BE** necessary based on the vehicle condition and diagnosis as per the technical instructions. **ONLY ORDER** the necessary parts based on the vehicle's diagnosed condition. These parts can be found in the technical instructions.

The Power Management ECU is only needed if there is a reprogramming failure.

Model	Part Number	Description	Quantity As Needed
Prius	89681-47253*	Power Management ECU	1
Prius V	89681-47423*	Power Management ECU	1
Prius V	89681-47031*	Power Management ECU	1
Prius V	89981-47631*	Power Management ECU	1
Prius V	89981-47231*	Power Management ECU	1
Prius V	89681-47030**	Power Management ECU	1
Prius V	89981-47630**	Power Management ECU	1

^{*}Does NOT require software update.

^{**}Requires software update.

Technician Training Requirements

The repair quality of covered vehicles is extremely important to Toyota. All dealership technicians performing this repair are required to successfully complete the most current version of the E-Learning course "Safety Recall and Service Campaign Essentials". To ensure that all vehicles have the repair performed correctly; technicians performing this repair are required to currently hold at least one of the following certification levels:

- Expert Technician (Hybrid)
- · Master Technician
- Master Diagnostic Technician

Always check which technicians can perform the repair by logging on to https://www.uotdealerreports.com. It is the dealership's responsibility to select technicians with the above certification level or greater to perform this repair. Carefully review your resources, the technician skill level, and ability before assigning technicians to this repair. It is important to consider technician days off and vacation schedules to ensure there are properly trained technicians available to perform this repair at all times.

Remedy Procedures

Refer to TIS for Technical Instructions on repair. Conduct all non-completed Safety Recalls and Service Campaigns on the vehicle during the time of appointment.

Repair Quality Confirmation

The repair quality of covered vehicles is extremely important to Toyota. To help ensure that all vehicles have the repair performed correctly, please designate at least one associate (someone other than the individual who performed the repair) to verify the repair quality of every vehicle prior to customer delivery.

Parts Recovery Procedures

All parts replaced as part of this Safety Recall must be turned over to the parts department until appropriate disposition is determined. The parts department must retain these parts until notification via the Parts Recovery System (PRS) is received indicating whether to ship or scrap the parts. These parts are utilized by various departments for defect analysis, quality control analysis, product evaluation, as well as other purposes.

To help minimize dealer storage challenges, Toyota recommends that dealers:

- File the campaign claim accurately and promptly. The time a dealer is required to hold parts is based on when the campaign claim is paid by Toyota.
- Monitor the Warranty Parts Recovery Notifications and Part Scrap Report regularly.

Refer to Warranty Policies 9.3 and 9.6 for additional details.

Vehicles Emission Recall Proof of Correction Form (California only)

As this Safety Recall includes emission related parts, California dealers are requested to fill out the Vehicle Emissions Recall – Proof of Correction form after repairs have been completed. The vehicle owner may require this form for vehicle registration renewal. *It is important to note that the forms are an official state document*

and blank forms must be secured to prevent misuse. Booklets can be ordered from the MDC (material number 00410-92007).

Please complete the form and provide it to the owner. The first non-completed VINs will be submitted to the California state DMV by early March 2021. If the vehicle owner's warranty claim will not be processed and paid prior to this date, please be sure to complete a form and provide it to a California owner.



Warranty Reimbursement Procedures

Loaner Vehicle or Alternative Transportation Reimbursement Procedure

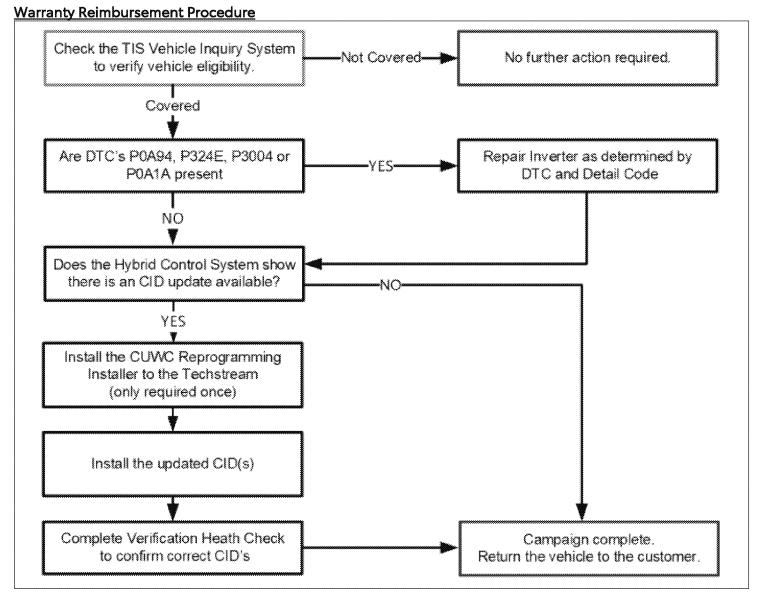
There are no warnings that this condition exists. *However, if the vehicle enters a fail-safe driving mode the following warning lights will be illuminated on the instrument panel when the vehicle enters the fail-safe driving mode.*

Warning Lights Prius V Without Multi-Information Display (MID)						
	Hybrid system warning					
(SS)	Slip Indicator					
I ◯ CHECK	Check Engine Warning Light					
(Yellow Light)	Electronically Controlled Brake System Warning Light					

Warning Lights Prius V With Multi-Information Display (MID) and Prius						
A	Master Warning Light					
CHECK HYBRID SYSTEM	Hybrid system warning message					
CHELK PCS 5953EH	PCS system warning message (if equipped)					
NOTE: If PCS equipped.	DRICK PICS SPICILIN					
CHECK HYBRID SYSTEM	Display switches					
	Slip Indicator					
KG CHECK	Check Engine Warning Light					
(Yellow Light)	Electronically Controlled Brake System Warning Light					

Until the remedy is performed, drivers should avoid placing a high load on the hybrid system by avoiding full throttle application when possible. As indicated in your Owner's Manual, Toyota does not recommend towing with your vehicle, and we urge you to follow this recommendation to avoid placing a high load on the system.

If a customer is experiencing the condition described and is unable to drive it to the dealership, your dealership should arrange for vehicle pickup.



NOTE

• Warranty Op Codes have 2 separate tables below. First table is for Prius only. Second table is for Prius V only.

Prius Vehicles ONLY

Description

- 1. Reprogram the Power Management ECU
- 2. Replace the Power Management ECU due to reprogramming failure (*NO* update to NEW ECU needed)
- 3. Replace the Power Management ECU due to reprogramming failure (UPDATE to NEW ECU needed)
- 4. Replace the IPM (Intelligent Power Module)
- 5. Replace the MG ECU
- 6. Replace the inverter current sensor sub-assembly
- 7. Replace the inverter assembly

Ор		Description (Reference Chart Above)							
Codes	1	2	3	4	5	6	7	Time	
A10001	✓							0.7	
A10002		✓						1.3	
A10003			✓					1.9	
A10004	✓			✓				3.6	
A10005	4			✓	✓			3.6	
A10006	✓			1	✓	✓		3.7	
A10007	✓						✓	2.7	
A10008		✓		✓				4.2	
A10009		✓		✓	✓			4.2	
A10010		✓		✓	✓	1		4.3	
A10011		✓					✓	3.3	
A10012			✓	✓				4.8	
A10013			✓	√	✓			4.8	
A10014			✓	✓	✓	✓		4.9	
A10015			✓				✓	3.9	

- The flat rate times include 0.1 hours for administrative cost per unit for the dealership.
- A loaner vehicle or alternative transportation through the Toyota Rent-A-Car (TRAC) can be claimed, while the remedy is performed, for up to a maximum of **1** days as a sublet type "RT" under op codes: A10008, A1009, A1010, A1012, A1013, and A1014.
 - Rentals greater than 1 days or \$35.00 per day requires DSPM authorization as per the Toyota Transportation Assistance Policy (TTAP).
 - Rental invoice MUST be attached to all rental claims. These claims may be subject to debit if rental invoice is not attached.
- A loaner vehicle or alternative transportation through the Toyota Rent-A-Car (TRAC) can be claimed, due to back order of parts, for up to a maximum of <u>5</u> days as a sublet type "RT" under op codes: A10002, A10003, A10004, A10005, A10006, A10007, A10008, A10009, A10010, A10011, A10012, A10013, A10014, and A10015.
 - Rentals greater than <u>5</u> days or \$35.00 per day requires DSPM authorization as per the Toyota Transportation Assistance Policy (TTAP).
 - Rental invoice MUST be attached to all rental claims. These claims may be subject to debit if rental
 invoice is not attached.
- The cost of super long-life coolant will be reimbursed under sublet type "OF" for opcodes A10004, A10005, A10006, A10007, A10008, A10009, A10010, A10011, A10012, A10013, A10014, and A10015 up to 1.2 liters per vehicle for a MAX of \$15.
- Towing can be claimed under *ALL* remedy op codes for a maximum of \$250 as sublet type "TW" in the event the customer requests vehicle pickup.
 - Towing invoice MUST be attached to all towing claims. These claims may be subject to debit if towing invoice is not attached.

Prius V Vehicles ONLY

Desc	Description					
1.	Reprogram the Power Management ECU					
2.	Replace the Power Management ECU due to reprogramming failure (NO update to NEW ECU needed)					
3.	Replace the Power Management ECU due to reprogramming failure (UPDATE to NEW ECU needed)					
4.	Replace the IPM (Intelligent Power Module)					
5.	Replace the MG ECU					
6.	Replace the inverter current sensor sub-assembly					
7.	Replace the inverter assembly					

Ор	Description (Reference Chart Above)							Flat Rate
Codes	1	2	3	4	5	6	7	Time
A10101	✓							0.7
A10102		✓						1.3
A10103			✓					1.9
A10104	✓			✓				3.6
A10105	✓			✓	✓			3.6
A10106	✓			✓	✓	✓		3.9
A10107	✓						✓	2.3
A10108		✓		✓				4.2
A10109		✓		✓	✓			4.2
A10110		✓		✓	✓	✓		4.5
A10111		✓					✓	2.9
A10112			✓	✓				4.8
A10113			✓	✓	✓			4.8
A10114			√	✓	✓	✓		5.1
A10115			✓				✓	3.5

- The flat rate times include 0.1 hours for administrative cost per unit for the dealership.
- A loaner vehicle or alternative transportation through the Toyota Rent-A-Car (TRAC) can be claimed, while the remedy is performed, for up to a maximum of <u>1</u> days as a sublet type "RT" under op codes: A10106, A10108, A10109, A10110, A10112, A10113 and A10114.
 - Rentals greater than 1 days or \$35.00 per day requires DSPM authorization as per the Toyota Transportation Assistance Policy (TTAP).
 - Rental invoice *MUST* be attached to all rental claims. These claims may be subject to debit if rental invoice is not attached.
- A loaner vehicle or alternative transportation through the Toyota Rent-A-Car (TRAC) can be claimed, due to back order of parts, for up to a maximum of <u>5</u> days as a sublet type "RT" under op codes: A10102, A10103, A10104, A10105, A10106, A10107, A10108, A10109, A10110, A10111, A10112, A10113, A10114 and A10015.
 - Rentals greater than <u>5</u> days or \$35.00 per day requires DSPM authorization as per the Toyota Transportation Assistance Policy (TTAP).
 - o Rental invoice *MUST* be attached to all rental claims. These claims may be subject to debit if rental invoice is not attached.
- The cost of super long-life coolant will be reimbursed under sublet type "OF" for opcodes A10104, A10105, A10106, A10107, A10108, A10109, A10110, A10111, A10112, A10113, A10114, and A10015 up to 1.2 liters per vehicle for a MAX of \$15.
- Towing can be claimed under *ALL* remedy op codes for a maximum of \$250 as sublet type "TW" in the event the customer requests vehicle pickup.
 - Towing invoice MUST be attached to all towing claims. These claims may be subject to debit if towing invoice is not attached.

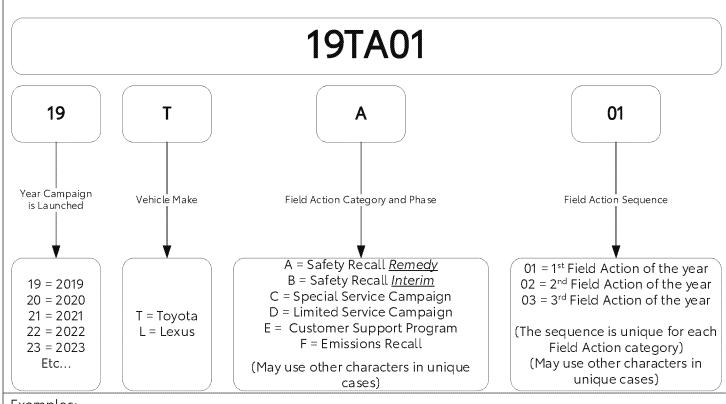
Claim Filing Accuracy and Correction Requests

It is the dealer's responsibility to file claims correctly for this Safety Recall. This claim filing information is used by Toyota for various government reporting activities; therefore, claim filing accuracy is crucial. If it has been identified that a claim has been filed using an incorrect Op Code or a claim has been filed for an incorrect VIN, refer to Warranty Procedure Bulletin <u>PRO17-03</u> to correct the claim.

Customer Reimbursement

Reimbursement consideration instructions will be included in the owner letter.

Campaign Designation / Phase Decoder



Examples:

19TA01 = Launched in 2019, Toyota, Safety Recall Remedy Phase, 1st Safety Recall Launched in 2019 20TC02 = Launched in 2020, Special Service Campaign, 2nd Special Service Campaign Launched in 2020 21TE05 = Launched in 2021, Customer Support Program, 5th Customer Support Program Launched in 2021

Please review this entire package with your Service and Parts staff to familiarize them with the proper step-bystep procedures required to implement this Safety Recall.

Thank you for your cooperation.
TOYOTA MOTOR SALES, U.S.A., INC.



SAFETY RECALL 20TA10 (Remedy Notice)

Certain 2013-2015 Model Year Prius Certain 2014 - 2017 Model Year Prius V Hybrid System Software Update NHTSA Recall No. 20V-369

Frequently Asked Questions
Original Publication Date: June 24, 2020

Q1: What is the condition?

A1: The involved vehicles were designed to enter a failsafe driving mode in response to certain hybrid system faults. Toyota has found that in rare situations, the vehicle may not enter a failsafe driving mode as intended. If this occurs, the vehicle could lose power and stall. While power steering and braking would remain operational, a vehicle stall while driving at higher speeds could increase the risk of a crash.

Q2: What is Toyota going to do?

A2: Toyota will send an owner notification by first class mail by late August 2020, advising owners to make an appointment with their authorized Toyota dealer to have a software update for the hybrid system performed *FREE OF CHARGE*. For customer satisfaction, if the vehicle has experienced an inverter failure with certain hybrid system faults related to this condition, the inverter assembly will be repaired or replaced *FREE OF CHARGE*.

NOTE (Customers who live in the state of California)

The state of California requires the completion of Safety Recalls / Service Campaigns on emission related parts prior to vehicle registration renewal. In addition, the State requires that every vehicle must pass an emission test (SMOG Check) every two years and before it is sold. Without the completion of this *FREE* Safety Recall, the California Air Resources Board (CARB) will not allow your vehicle to be registered. State of California Regulations require Toyota to provide the Department of Motor Vehicles with a record of all vehicles that have not had the Safety Recall completed.

Your Toyota dealer will provide you with a Vehicle Emissions Recall Proof of Correction Form after the campaign has been completed. Please ensure you retain this form, because the DMV may require that you supply proof that the campaign has been completed during your vehicle registration renewal process.

Q3: Are there any warnings that this condition exists?

A3: No. There are no warnings that this condition exists. *However, if the vehicle enters a fail-safe driving mode the following warning lights will be illuminated on the instrument panel when the vehicle enters the fail-safe driving mode.*

Warning Lights Prius V Without Multi-Information Display (MID)					
	Hybrid system warning				
\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	Slip Indicator				
CHECK	Check Engine Warning Light				
(Yellow Light)	Electronically Controlled Brake System Warning Light				

Warning Lights Prius V With Multi-Information Display (MID) and Prius							
A	Master Warning Light						
CHECK HYBRID SYSTEM	Hybrid system warning message						
CHECK PCS SYSTEM	PCS system warning message (if equipped)						
NOTE: If PCS equipped. CHECK HYBRID SYSTEM	Display switches						
	Slip Indicator						
(HECK	Check Engine Warning Light						
(Yellow Light)	Electronically Controlled Brake System Warning Light						

Q4a: How long and what distance can a vehicle be driven when the vehicle enters a fail-safe driving mode?

A4a: It differs in each model and with varying driving and environmental conditions. Generally, the failsafe mode is designed to allow the driver to operate the vehicle at reduced power for certain distances to allow the driver to maneuver the vehicle to a safe location.

FAQ Page 2 of 4

Q4b: What should I do if my vehicle enters fail-safe driving mode?

A4b: If a vehicle enters a fail-safe driving mode, the driver should pull over and stop the car in a safe area at the earliest opportunity. The driver should then contact his/her local Toyota dealer for assistance.

Q4c: Can you describe what happens when the vehicle does not enter fail-safe driving mode as intended? Would the brakes still be operational?

A4c: The vehicle will run on inertia only. However, the brakes, power steering, and auxiliary systems such as turn signals will be operational as usual.

Q4: What steps can I take to reduce the possibility of this condition occurring until the remedy is performed?

A4: Until the remedy is performed, drivers should avoid placing a high load on the hybrid system by avoiding full throttle application when possible. As indicated in your owner's manual, Toyota does not recommend towing with your Prius or Prius V, and we urge you to follow this recommendation to avoid placing a high load on the hybrid system.

Q5: What if I experience the condition described above?

A5: If you experience the condition described above, please contact your local authorized Toyota dealer for diagnosis and repair.

Q6: Which and how many vehicles are covered by this Safety Recall?

A6: There are approximately 266,600 vehicles covered by this Safety Recall. Approximately 120 vehicles were distributed to Puerto Rico.

Model Name	Model Year	Production Period		
Prius	2013 - 2015	Mid-March 2013 – Early November 2015		
Prius V	2014 - 2017	Late June 2014 – Late November 2017		

Q7: How long will the repair take?

A7: The software update will take approximately 45 minutes to complete. If the inverter needs to be repaired or replaced, the repair could take up to 5.5 hours. However, depending upon the dealer's work schedule, it may be necessary to make the vehicle available for a longer period of time.

Q8: What if I previously paid for repairs related to this Safety Recall?

A8: Reimbursement consideration instructions will be provided in the owner letter.

Q9: How does Toyota obtain my mailing information?

A9: Toyota uses an industry provider who works with each state's Department of Motor Vehicles (DMV) to receive registration or title information, based upon the DMV records. Please make sure your registration or title information is correct.

Q10: What if I have additional questions or concerns?

A10: If you have additional questions or concerns, please contact the Toyota Customer Experience Center at 1-888-270-9371 Monday through Friday, 7:00 am to 7:00 pm, Saturday 7:00 am to 4:30 pm Central Time.

TOYOTA

This notice applies to your vehicle: [VIN]

URGENT SAFETY RECALL

This is an important Safety Recall. The remedy will be performed **FREE OF CHARGE** to you.

IMPORTANT SAFETY RECALL (Remedy Notice)

Certain 2013-2015 Model Year Prius Certain 2014 - 2017 Model Year Prius V Hybrid System Software Update NHTSA Recall No. 20V-369

Dear (customer's First/Last name)

This notice is sent to you in accordance with <u>the National Traffic and Motor Vehicle Safety Act</u>. Toyota has decided that a defect, which relates to motor vehicle safety, exists in certain 2013 to 2015 model year Prius and certain 2014 to 2017 Prius V vehicles.

You received this notice because our records, which are based primarily on state registration and title data, indicate that you are the current owner.

What is the condition?

The involved vehicles were designed to enter a failsafe driving mode in response to certain hybrid system faults. Toyota has found that in rare situations, the vehicle may not enter a failsafe driving mode as intended. If this occurs, the vehicle could lose power and stall. While power steering and braking would remain operational, a vehicle stall while driving could increase the risk of a crash.

What should you do?

Please contact any authorized Toyota dealer to schedule an appointment to have the remedy performed as soon as possible. Your local Toyota dealer will be more than happy to answer any of your questions.

- To find a dealer near you, visit www.toyota.com/dealers.
- ✓ For more information on this and other Safety Recalls, including Frequently Asked Questions, visit <u>www.toyota.com/recall</u>. Input your full 17digit Vehicle Identification Number (VIN) noted above to review information specific to your vehicle.
- ✓ If you require further assistance, you may contact the Toyota Customer Experience Center at 1-888-270-9371 Monday through Friday, 7:00 am to 7:00 pm, Saturday 7:00 am to 4:30 pm Central Time.

What will Toyota do?

Any authorized Toyota dealer will perform the software update for the hybrid system *FREE OF CHARGE*. For customer satisfaction, if the vehicle has experienced an inverter failure with certain hybrid system faults related to this condition, the inverter assembly will be repaired or replaced *FREE OF CHARGE*.

This is an important Safety Recall

The software update will take approximately 45 minutes to complete. If the inverter needs to be repaired or replaced, the repair could take up to 7.5 hours. However, depending upon the dealer's work schedule, it may be necessary to make the vehicle available for a longer period of time.

There are no warnings that this condition exists. *However, if the vehicle enters a fail-safe driving mode the following warning lights will be illuminated on the instrument panel when the vehicle enters the fail-safe driving mode.*

Warning Lights Prius V Without Multi-Information Display (MID)				
	Hybrid system warning			
	Slip Indicator			
CHECK	Check Engine Warning Light			
(Yellow Light)	Electronically Controlled Brake System Warning Light			

Warning Lights Prius V With Multi-Information Display (MID) and Prius					
A	Master Warning Light				
CHECK HYBRID SYSTEM	Hybrid system warning message				
CHECK PCS SYSTEM	PCS system warning message (if equipped)				
NOTE: If PCS equipped.	CHARGE FOR SHOUTH				
CHECK HYBRID SYSTEM	Display switches				
(5)	Slip Indicator				
(Ĝ CIECK	Check Engine Warning Light				
(Yellow Light)	Electronically Controlled Brake System Warning Light				

Until the remedy is performed, drivers should avoid placing a high load on the hybrid system by avoiding full throttle application when possible. As indicated in your Owner's Manual, Toyota does not recommend towing with your vehicle, and we urge you to follow this recommendation to avoid placing a high load on the system.

If your vehicle is experiencing the condition described and you are unable to drive it to the dealership, please contact your local authorized Toyota dealer who will arrange for vehicle pickup.

What if you live in California and do not have this Safety Recall Campaign performed?

The state of California requires the completion of Safety Recalls / Service Campaigns on emission related parts prior to vehicle registration renewal. In addition, the State requires that every vehicle must pass an emission test (SMOG Check) every two years and before it is sold. Without the completion of this *FREE* Safety Recall Campaign the California Air Resources Board (CARB) will not allow your vehicle to be registered. State of California Regulations require Toyota to provide the Department of Motor Vehicles with a record of all vehicles that have not had the Safety Recall Campaign completed.

Your Toyota dealer will provide you with a Vehicle Emissions Recall Proof of Correction Form after the campaign has been completed. Please ensure you retain this form, because the DMV may require that you supply proof that the campaign has been completed during your vehicle registration renewal process.

What if you have previously paid for repairs to your vehicle for this specific condition?

If you have previously paid for repair(s) to your vehicle for this specific condition prior to receiving this letter, you may be eligible for reimbursement. For reimbursement consideration, please submit a copy of your repair details (for example: a repair order), proof-of-payment, and ownership information to Toyota's online, self-service portal. Log-in to your Toyota Owners account at https://www.toyota.com/owners/, click on the "Resources" tab, select "Safety Recalls and Service Campaigns", and click on "Submit Reimbursement Request".

Alternatively, if you prefer to mail or fax this information for reimbursement consideration, please use the address or fax number shown below:

Toyota Customer Experience Center - TSR Toyota Motor Sales, USA, Inc. c/o Toyota Motor North America, Inc. P O Box 259001 - SSC/CSP Reimbursements Plano, Texas 75025-9001

FAX: 310-381-7756

Please refer to the attached Reimbursement Checklist for required documentation details.

What if you are not the owner or operator of this vehicle?

If you are a vehicle lessor, Federal Law requires that any vehicle lessor receiving this recall notice must forward a copy of this notice to the lessee within ten days.

If you know the current owner or operator, please forward this letter to them.

If you would like to update your vehicle ownership or contact information, please visit https://www.toyota.com/recall/update-info-toyota. You will need your full 17-digit Vehicle Identification Number (VIN) to input the new information.

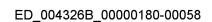
If you believe that the dealer or Toyota has failed or is unable to remedy the defect within a reasonable time or without charge, you may submit a complaint to the Administrator, National Highway Traffic Safety Administration, 1200 New Jersey Avenue S.E., Washington, D.C. 20590, or call the toll free Vehicle Safety Hot Line at 1-888-327-4236 (TTY: 1-800-424-9153), or go to https://www.safercar.gov.

We have sent this notice in the interest of your continued satisfaction with our products. We sincerely regret any inconvenience this condition may have caused you.

Thank you for driving a Toyota.

Sincerely,

Toyota Motor Sales, USA





Toyota Motor Sales, USA, Inc.

6565 Headquarters Drive Plano, TX 75024 (469) 292-4000

CUSTOMER CONTACT & VEHICLE DISCLOSURE FORM

This form is not applicable for new vehicles in dealership inventory and TCUV units.

been performed. I understand	y Recall. At this time, <u>remedy parts are not available,</u> and the remedy has NO nat the vehicle will need to be returned to an authorized Toyota dealer to have HARGE when the remedy is available.
Customer Signature	
	gister with the Toyota Owners Community at http://www.toyota.com/owners/cability using www.safercar.gov. You will need to ification Number (VIN). Campaign Code
Model	Model Year
Customer Information	
Customer Name	Customer Email
Customer Address	Home Phone #
	Mobile Phone #
	Date
available. This information v	on so that Toyota or your dealer can notify you when the remedy becomes ll only be used for campaign communications. If you'd like to update your in the future, visit www.toyota.com/ownersupdate or contact us at 1-888-
Dealer Information	
Dealer Name/Address	Dealer Code
	Dealer Phone Number
	Dealer Staff Name
	Dealer Staff Signature

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TECHNICAL INSTRUCTIONS

FOR

SAFETY RECALL 20TA10

HYBRID SYSTEM SOFTWARE UPDATE

CERTAIN 2013 - 2015 PRIUS

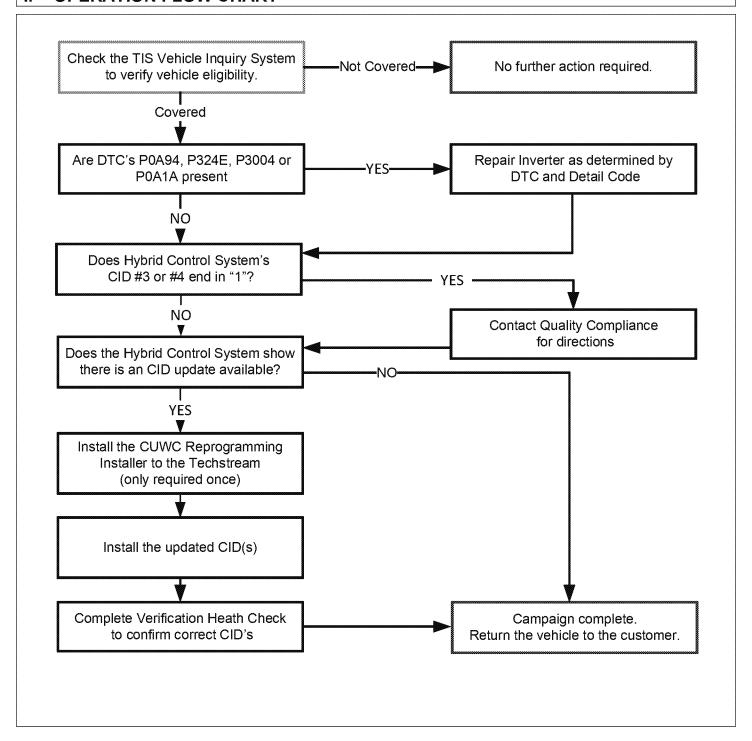
Prius V Technical Instructions are in a separate document

The repair quality of covered vehicles is extremely important to Toyota. All dealership technicians performing this recall are required to successfully complete the most current version of the E-Learning course "Safety Recall and Service Campaign Essentials". To ensure that all vehicles have the repair performed correctly; technicians performing this recall repair are required to currently hold <u>at least one</u> of the following certification levels:

- Expert Technician (Hybrid)
- · Master Technician
- · Master Diagnostic Technician

It is the dealership's responsibility to select technicians with the above certification level or greater to perform this recall repair. Carefully review—your resources, the technician skill level, and ability before assigning technicians to this repair. It is important to consider technician days off and vacation schedules to ensure there are properly trained technicians available to perform this repair at all times.

I. OPERATION FLOW CHART



II. IDENTIFICATION OF AFFECTED VEHICLES

- CHECK VEHICLE FOR CAMPAIGN ELIGIBILITY
 - a. Compare the vehicles VIN to the VIN listed on the Repair Order to ensure they match.
 - b. Check the TIS Vehicle Inquiry System to confirm the VIN is involved in this Campaign, and that it has not already been completed.

Note: TMNA warranty will not reimburse dealers for repairs completed on vehicles that are not affected or were previously completed, even by another dealer.

III. PREPARATION

1. PARTS

Part Number	Part Description	Quantity	
00451-00001-LBL*	Authorized Modification Label	1	

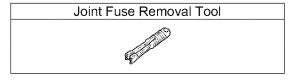
^{*}Labels can be ordered in packs of 25 from the MDC through the Dealer Daily Website

2. TOOLS, SUPPLIES & EQUIPMENT

- Standard Hand Tools
- Techstream 2.0 / Techstream Lite with software version 13.30 or greater installed
- GR8 Battery Diagnostic Station
- T-SB-0134-16

SST - These Special Service Tools required for this repair:

CO i iniceo opecial oc	n vice i colo rogali ca ici tilic ropali	•
Part Number	Tool Name	Quantity
09891-47020	Inverter Case Separator	1
Campaign tool	Joint Fuse removal tool	1



The fuse removal tools were shipped to the dealers for a previous campaign.

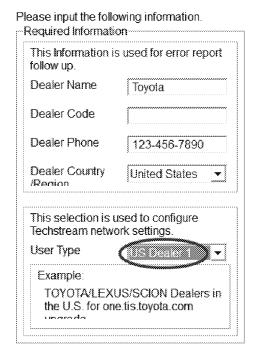
IV. BACKGROUND

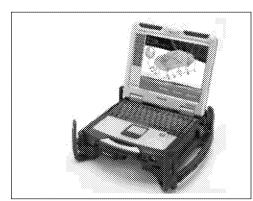
The involved vehicles were designed to enter a failsafe driving mode in response to certain hybrid system faults. Toyota has found that in rare situations, the vehicle may not enter a fail-safe driving mode as intended. If this occurs, the vehicle could lose power and stall. While power steering and braking would remain operational, a vehicle stall while driving at higher speeds could increase the risk of a crash.

V. INSPECT INVERTER CONDITION

1. Verify Techstream Configuration

- a. From the menu at the top of the screen, select: Setup / Techstream Configuration.
- b. Continue to the third setup screen: Required Information.
- c. Verify that "US Dealer 1" is selected as the User Type.





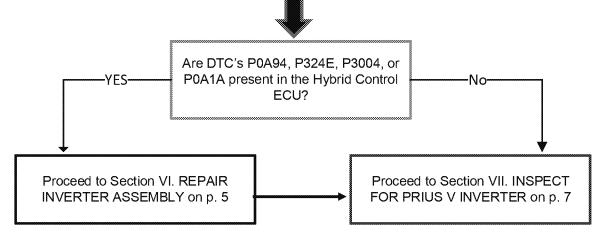
2. PERFORM HEALTH CHECK

a. Using a Techstream, perform a Health Check.



If any hybrid DTC's are found that indicate a safety risk at performing this repair, do not proceed until they have been resolved.

Note: This Safety Recall covers only the specified ECU updates and Inverter repairs, as detailed in these instructions. It does not cover the diagnosis or replacement of any other parts on the vehicle, including the hybrid system.



VI. REPAIR INVERTER ASSEMBLY

Note: Repairing the inverter is required only if DTC's P0A94, P324E, P3004 or P0A1A are present. If these DTC's are not present, skip to section VII. Inspect for Prius V Inverter on page 7.

1. DETERMINE REPAIR COMPONENTS BASED ON DTC DETAIL CODE

- a. If multiple DTCs are present, save the freeze frame data.
- b. After saving the freeze frame data, clear codes and confirm what DTCs reset.
- c. If multiple codes return, follow the repair manual diagnosis procedure for the DTC with Freeze Frame Data Occurrence Order value of "1".
- d. Use the correct table on the following pages to identify the parts required for repair, the correct parts are listed in the bottom row of each table.

DTC	DTC DETAIL CODE	• IPM	• MG-ECU	MG-ECU IPM	MG-ECU CURRENT SENSOR IPM	• INVERTER ASSY
	127			Х		
	172	Х				
	442			X		
	547		X			
	548				Х	
	549		X			
	550			X		
	553	X				
P0A94	554		X			
	555				Х	
	556		X			
	557	X				
	564			X		
	585			X		
	587			X		***************************************
	589 590			X		
P324E	788			^	X	
r JZ4L	151				X	
	155		Х			
	156		X			
	166		X			
	200		Χ			
P0A1A	658		Χ			
	659		Х			
	791		Х			
	792		X			
	793		Х			
	131					X
	132					Х
P3004	800	Х				
	801	X				
	001	^				
PARTS & QUANTIT Y (QTY)		04899-47021 (1) 08887-02809 (2) 04899-47060 (1) 08826-00100 (1) 90430-18008 (1)	G920H-47150 (1) 04899-47060 (1) 08826-00100 (1) 90430-18008 (1)	04899-47021 (1) 08887-02809 (2) G920H-47150 (1) 04899-47060 (1) 08826-00100 (1) 90430-18008 (1)	04899-47021 (1) 08887-02809 (2) G920H-47150 (1) G920J-52010 (1) 04899-47060 (1) 08826-00100 (1) 90430-18008 (1)	ORDER INVERTER BY VIN



Thermal grease for IPM replacement is NOT interchangeable. Only grease specified for the Prius inverter can be used. Grease for the Highlander IPM replacement will result in inverter failure if used.

2. TO REPAIR THE INVERTER, CLICK ON THE RELEVANT LINK BELOW:

2013 Prius: Intelligent Power Module Transistor Removal

2014 Prius: Intelligent Power Module Transistor Removal

2015 Prius: Intelligent Power Module Transistor Removal

3. ONCE THE INVERTER REPAIR IS COMPLETED, CONTINUE TO THE NEXT SECTION.

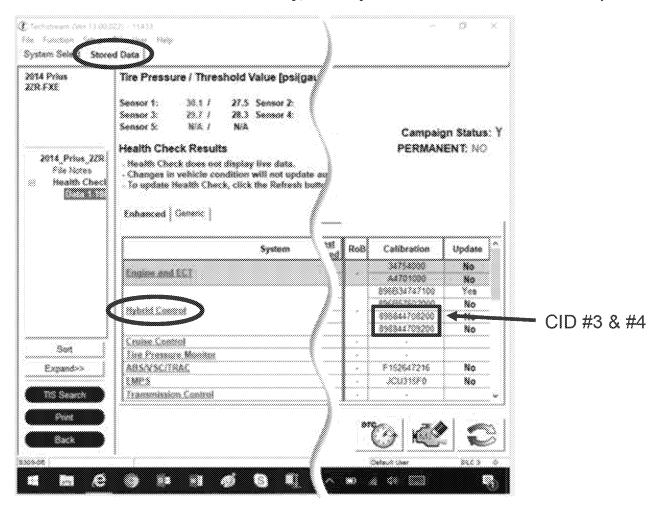
VII. INSPECT FOR PRIUS V INVERTER

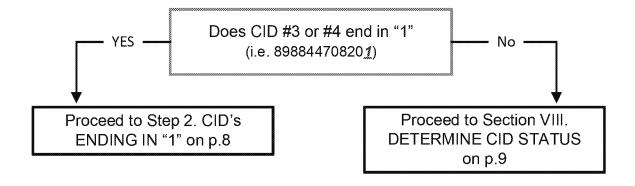
1. INSPECTION OF HYBRID CONTROL CID'S #3 & #4

- a. Identify the Hybrid Control CID #3 & #4 from the Stored Data tab.
- b. Determine if the last digit of CID #3 & #4 is a "0" or a "1".

For example: CID 898844708200, has the last digit of "0". CID 898844708201, has the last digit of "1".

Note: The actual CID's will vary, and may not be the same CID as the example.





2. CID's ENDING IN "1"

It may be necessary to determine if a Prius has been incorrectly repaired with a Prius V inverter or Motor Generator (MG) ECU in the past. This condition may be identified by reviewing the Hybrid Control System CIDs #3 & #4. If the #3 and #4 CIDs end in a "1" instead of a "0", this may indicate that Prius V components were installed in a Prius vehicle.

This mismatch of CID's will create an error message when performing 20TA10 and will prevent its completion. To address this situation, the <u>vehicle must be repaired using parts that are correct for a Prius.</u>

If the vehicle requires replacement of the Inverter or MG ECU because Prius V parts are installed, it will be necessary to contact Quality Compliance for direction.

Please check Toyota National Service History (NSH) to determine if the Prius V inverter or MG ECU was installed at a Toyota dealership. The following part numbers would confirm the issue:

• G9200-49056 Prius V Inverter Assembly

G920H-47040 Prius V Motor Generator ECU

Email Quality Compliance with the following information to determine the repair direction:

Email address: quality_compliance@toyota.com Email subject: 20TA10 Inverter/MG ECU Request

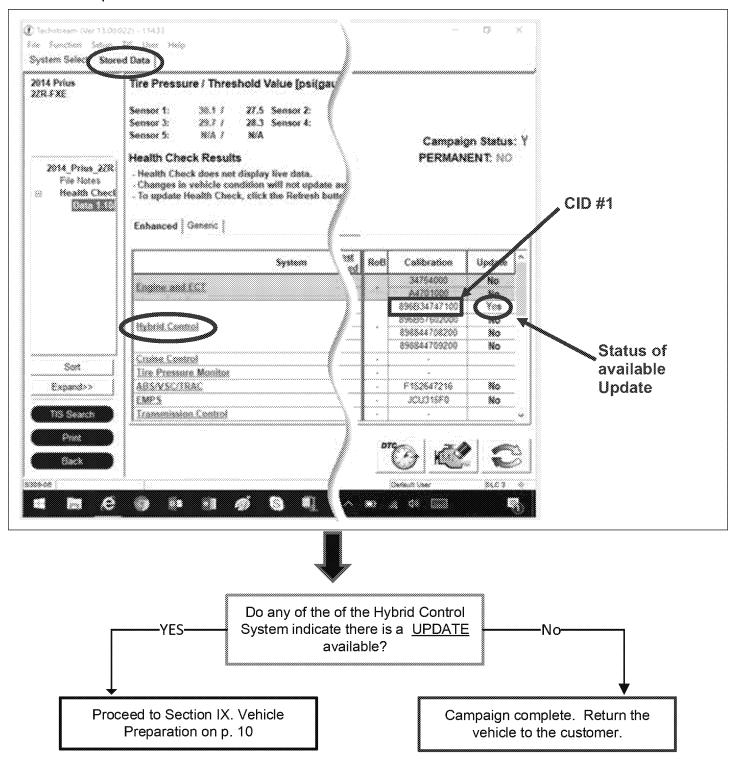
Email contents:

- VIN #
- Screenshot of Hybrid Control CID's
- RO# and date of previous Inverter or MG ECU replacement in NSH (if found).
- Part number of Inverter or MG ECU replacement in NSH (if found).
- Technicians Name and contact number.

VIII. DETERMINE CID STATUS

1. DETERMINE STATUS of HYBRID CONTROL SYSTEM CID's

- a. Locate the Update column for the Hybrid Control System in the Stored Data tab.
- b. Determine the status of the <u>CID #1</u> for the Hybrid Control ECU; indicated by a <u>YES</u> or <u>NO</u> in the Update column.



If the Update Column listed "No" in the location specified above, no further action is necessary. The campaign is now completed. The vehicle can be returned to the customer.

IX. VEHICLE PREPARATION

The ECU reprograming procedure is detailed in <u>T-SB-0134-16</u>. Reference this Bulletin for additional detailed procedures and information.

3. VEHICLE BASICS

- a. Confirm the following conditions:
 - Vehicle in the IG position (engine off).
 - Transaxle in Park.
 - Parking brake engaged.
 - Turn off all electrical accessories (i.e. Headlights, wipers, climate control, audio system, etc.)

4. CONNECT THE 12v BATTERY TO A POWER SUPPLY

- a. Connect the DCA-800, GR8 or other type of a power supply (not a battery charger) to the 12v battery.
- b. Activate the Power Supply Mode.



A power supply *MUST* be used during reprogramming. ECU damage will occur if the battery voltage is not properly maintained during this re-flash procedure.

Note: A power supply must be connected directly to the 12v battery terminals and <u>NOT</u> the remote jump posts under the hood (if equipped).

5. VERIFY TECHSTREAM SETUP

- a. Verify that the Techstream meets the following conditions:
 - Current version of software is installed (reference TIS for latest software version).
 - The Techstream battery is fully charged. If not, connect the Techstream to a 120v source.
 - The DLCIII cable is in good condition.



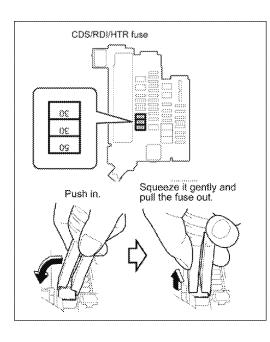
The Techstream battery must be maintained during the update procedure. If necessary, plug the Techstream into a 120v outlet to ensure that a failure does not occur.

Note: If the Techstream communication with the vehicle fails during the re-flash procedure, the ECU will be damaged and must be replaced.

6. MAINTAIN BRAKE SYSTEM PRESSURE

a. Depress the brake pedal fully 2 times within 2 seconds.

Note: You may hear the hydro-boost pump run for a few seconds when completing these steps. This procedure will prevent the pump from running during the calibration update procedure.



REMOVE JOINT FUSE FROM ENGINE ROOM FUSE BOX

- a. Confirm the joint fuse orientation before removal because the fuse can be installed in either direction.
- b. Using the fuse puller remove the joint fuse that encases the CDS (30A), RDI (30A) and HTR (50A).

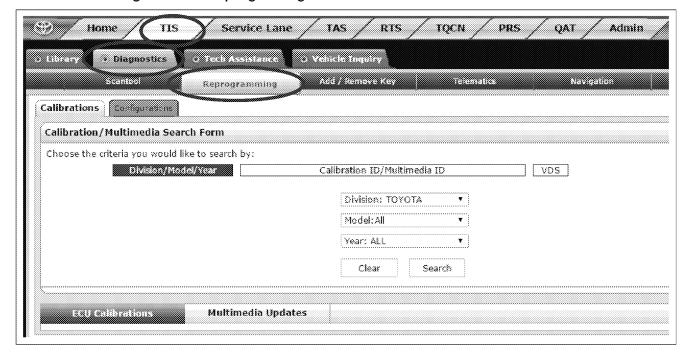


Permanent damage to the ECU's can happen if these fuses are not removed.

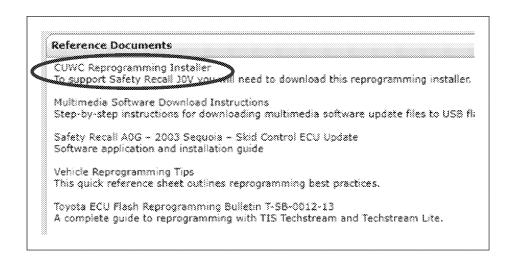
Removing these fuses will stop the vehicle from performing onboard diagnostic tests during the update, which could cause the update to fail and damage the ECU.

X. CUWC APPLICATION

- 1. INSTALL CUWC FILE INSTALLER (Only required once for each Techstream)
 - a. In TIS, select the following:
 - TIS / Diagnostics / Reprograming



- b. On the right side of the screen, select the following from the Reference Documents:
 - CUWC Reprogramming Installer
 - Follow the on-screen instructions to complete the installation.



Note: The installation of the CUWC Reprograming Installer will only need to be completed one time for each Techstream.

(cont. on next page)



STOP

Permanent damage to the ECU's will occur if the following actions are attempted during the CID update procedure:

- · Attempt to close the CUWC installer
- · Attempt to close the Calibration Wizard
- Turning off the vehicle's ignition
- Turning off the Techstream Unit
- Unplugging the Techstream from the vehicle while programing in in process

The following message will appear when the CUWC installation application is running. This image cannot be closed manually. When the installation of all necessary CID's is complete, the image will close.

Message displayed during CID update process:

CUWC is starting... Lancement de CUWC... CUWC esta iniciando...



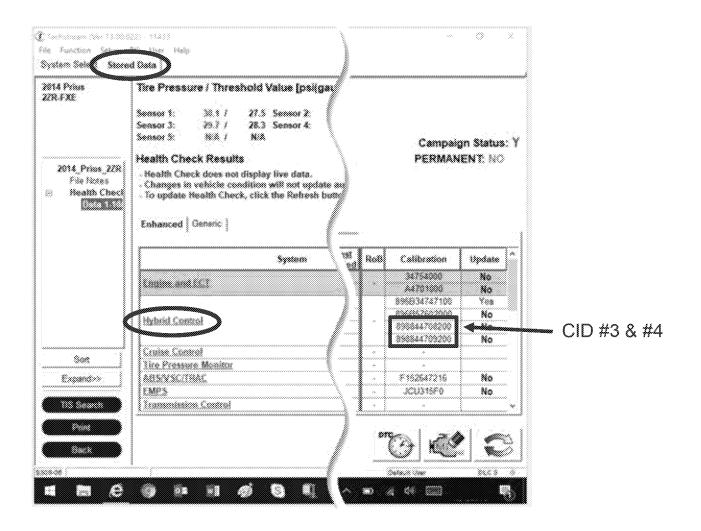
- <Caution>
- Do not operate Techstream
- When the CUWC application or PC Stop unexpectedly, please recover ECU from CUW application.
- <Attention>
- Ne pas utiliser Techstream.
- Lorsque l' application CUWC ou le PC s' arrête inopinement, veuillez restaurer l' ECU depuis l' application CUWC.
- <Cuidado>
- No opere Techstream.
- Si la aplicacion CUWC o la PC se detienen inesperadamente, por favor recupere ECU de la aplicacion CUW.

XI. CID INSTALLATION

1. INSTALLATION OF CID'S

Note: Since there are multiple CID groups available, it will be necessary to identify the correct group by referencing CID's #3 & #4.

- a. Identify the Hybrid Control CID #3 & #4 from the Stored Data tab.
- b. Referencing the correct model year in the chart's below, identify the chart that has the correct CID #3 & #4.
- c. Select the Group # link (blue text) to begin the update process.
- d. Follow the instruction on the screen to complete the installation.



Year	CID#	Original	Current
		896B34736000	
	CID #1	896B34736100	
	CID#1	896B34736200	<u>2013 Prius #1</u>
		896B34736300	CID #1: 896B34736400
2013	CID #2	896B57602000	CID #2: 896B57602000
Prius	Parameter Control of C	89884470 1200	CID #3: 898844701400
11143	CID #3	89884470 1300	CID #4: 898844702300
		89884470 1400	
	4	89884470 2100	
	CID #4	89884470 2200	
		89884470 2300	
		896B34736000	
	CID #1	896B34736100	
	CID #1	896B34736200	<u> 2013 Prius #2</u>
		896B34736300	CID #1: 896B34736400
2013	CID #2	896B57602000	CID #2: 896B57602000
Prius		89884470 8000	CID #3: 898844708200
11143	CID #3	89884470 8100	CID #4: 898844709200
		89884470 8200	
		89884470 9000	
	CID #4	89884470 9100	
		89884470 9200	

Prius V Technical Instructions are in a separate document

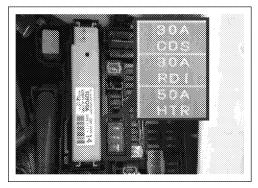
(cont. on next page)

Year	CID#	Original	Current
		896B34747000	
	CID #1	896B34747100	
		896B34747200	<u>2014-2015 Prius #1</u>
	CID #2	896B57602000	CID #1: 896B34747300
2014 - 2015		89884470 1200	CID #2: 896B57602000
Prius	CID #3	89884470 1300	CID #3: 898844701400
		89884470 1400	CID #4: 898844702300
		89884470 2100	
	CID #4	89884470 2200	
		89884470 2300	

		896B34747000	
	CID #1	896B34747100	
		896B34747200	2014-2015 Prius #2
	CID #2	896B57602000	CID #1: 896B34747300
2014 - 2015 Prius	CID #3	89884470 8000	CID #2: 896B57602000
		89884470 8100	CID #3: 898844708200
		89884470 <i>8200</i>	CID #4: 898844709200
		89884470 9000	
	CID #4	89884470 9100	
		89884470 9200	

Prius V Technical Instructions are in a separate document

XII. COMPLETE UPDATE

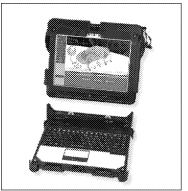


1. REINSTALL JOINT FUSE INTO ENGINE ROOM FUSE BOX

- a. Confirm the joint fuse orientation before reinstalling because the joint fuse can be installed in either direction.
- b. Reinstall the joint fuse that encases the CDS (30A), RDI (30A) and HTR (50A).



BE SURE TO ORIENT THE FUSE AS SHOWN ON THE FUSE BLOCK COVER.



2. PERFORM VERIFICATION HEALTH CHECK

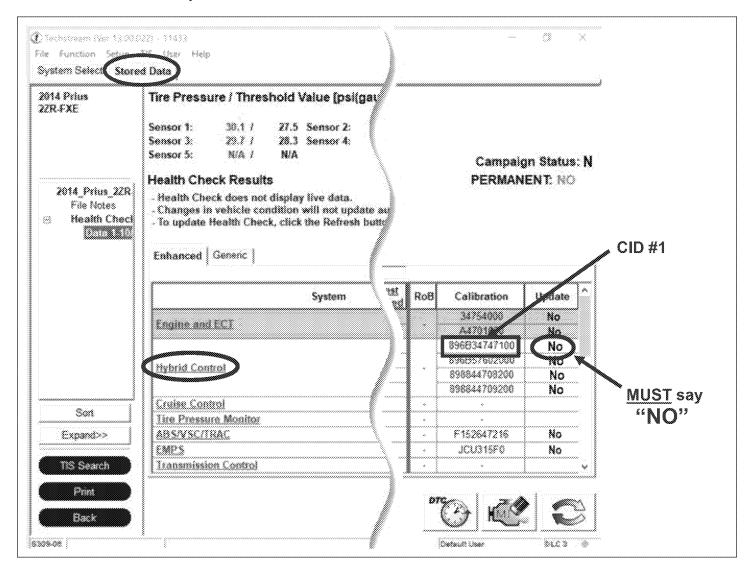
- a. Using a Techstream, perform a Health Check.
- c. Clear DTC's that may have set during the re-flash procedure.
- d. Re-run the Health Check to confirm that no DTC's reappear.



THIS VERIFICATION HEALTH CHECK IS NECESSARY to update the results and CID's to the National database.

3. CONFIRM CID UPDATE

- a. On the Stored Data tab, confirm the following for the Hybrid Control System:
 - The Update column lists "No" for CID #1

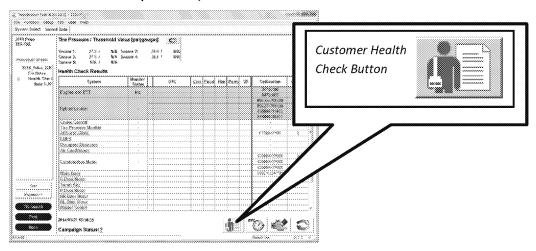




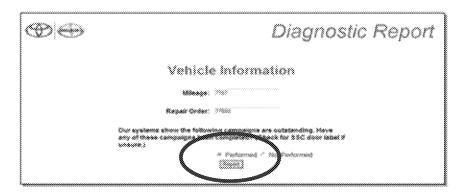
It is recommended to have this step verified by someone other than the individual who performed the update.

4. PRINT CUSTOMER HEALTH CHECK REPORT

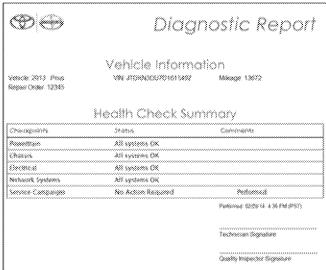
a. From the Stored Data tab, select the Customer Health Check Report button (TIS will launch when button is pressed).



- b. Log in to TIS.
- c. Input Vehicle Mileage and Repair Order number.
- d. Check the "Performed" campaign button for campaign 20TA08.
- e. Select the Report button.



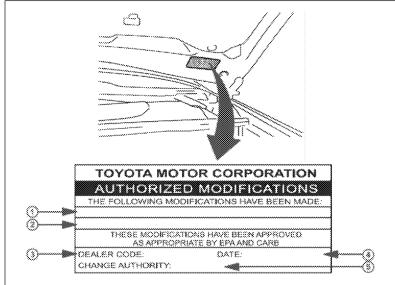
f. Confirm Customer Health Check Report information is correct.

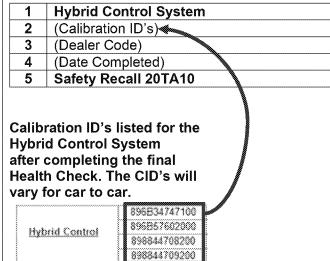


- g. Print Customer Health Check Report from TIS.
- h. Sign and provide to the customer.

5. ATTACH THE AUTHORIZED VEHICLE MODIFICATION LABEL

- a. Fill out the label.
- b. Affix the label to the under-side of the hood.





■ VERIFY REPAIR QUALITY >

- Confirm all ECM Calibration has been updated successfully to the NEW CID's.
- Confirm that the Authorized Modification Label has been installed.

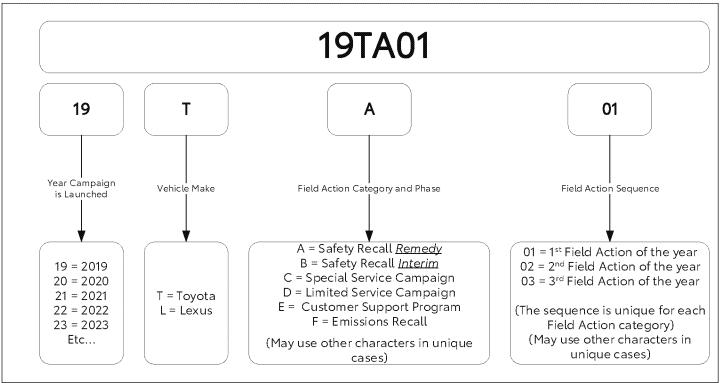
If you have any questions regarding this Safety Recall, please contact your regional representative

XIII. APPENDIX

A. PARTS DISPOSAL

As required by Federal Regulations, please make sure all recalled parts (original parts) removed from the vehicle are disposed of in a manner in which they will not be reused, unless requested for parts recovery return.

B. CAMPAIGN DESIGNATION DECORDER



Examples:

19TA01 = Launched in 2019, Toyota, Safety Recall Remedy Phase, 1st Safety Recall Launched in 2019 20TC02 = Launched in 2020, Special Service Campaign, 2nd Special Service Campaign Launched in 2020

21TE05 = Launched in 2021, Customer Support Program, 5th Customer Support Program Launched in 2021

IMPORTANT UPDATE

TECHNICAL INSTRUCTIONS FOR

SAFETY RECALL 20TA10

HYBRID SYSTEM SOFTWARE UPDATE

CERTAIN 2014 - 2017 PRIUS V

Technical Instructions for the 2013-2015 Prius are in a separate document

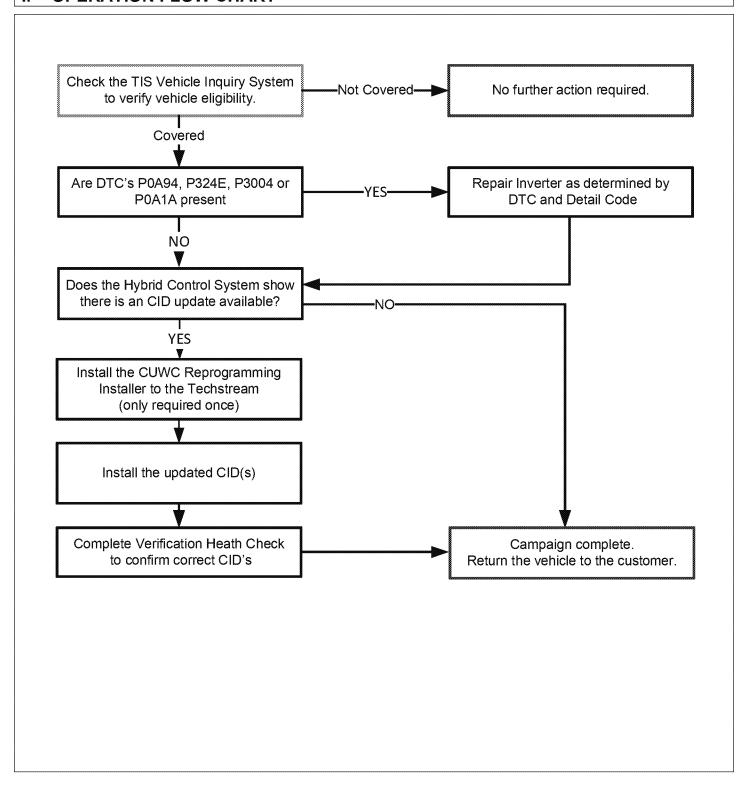
Update 7/31/2020: Note added about CID #3 & #4 for 2015 Prius V on p. 15

The repair quality of covered vehicles is extremely important to Toyota. All dealership technicians performing this recall are required to successfully complete the most current version of the E-Learning course "Safety Recall and Service Campaign Essentials." To ensure that all vehicles have the repair performed correctly, technicians performing this recall repair are required to currently hold at least one of the following certification levels:

- Expert Technician (Hybrid)
- · Master Technician
- · Master Diagnostic Technician

It is the dealership's responsibility to select technicians with the above certification level or greater to perform this recall repair. Carefully review—your resources, the technician skill level, and ability before assigning technicians to this repair. It is important to consider technician days off and vacation schedules to ensure there are properly trained technicians available to perform this repair at all times.

I. OPERATION FLOW CHART



II. IDENTIFICATION OF AFFECTED VEHICLES

- 1. CHECK VEHICLE FOR CAMPAIGN ELIGIBILITY
 - a. Compare the vehicles VIN to the VIN listed on the Repair Order to ensure they match.
 - b. Check the TIS Vehicle Inquiry System to confirm the VIN is involved in this Campaign, and that it has not already been completed.

Note: TMNA warranty will not reimburse dealers for repairs completed on vehicles that are not affected or were previously completed, even by another dealer.

III. PREPARATION

1. PARTS

Part Number	Part Description	Quantity
00451-00001-LBL*	Authorized Modification Label	1

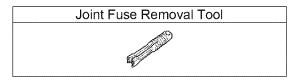
^{*}Labels can be ordered in packs of 25 from the MDC through the Dealer Daily Website

2. TOOLS, SUPPLIES & EQUIPMENT

- Standard Hand Tools
- Techstream 2.0 / Techstream Lite with software version 13.30 or greater installed
- GR8 Battery Diagnostic Station
- T-SB-0134-16

SST – These Special Service Tools required for this repair:

		•
Part Number	Tool Name	Quantity
09891-47020	Inverter Case Separator	1
Campaign tool	Joint Fuse removal tool	1



The fuse removal tools were shipped to the dealers for a previous campaign. Additional tools will also be sent.

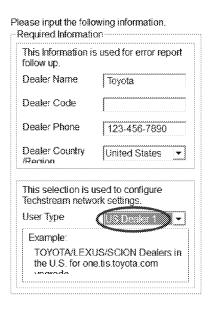
IV. BACKGROUND

The involved vehicles were designed to enter a failsafe driving mode in response to certain hybrid system faults. Toyota has found that in rare situations, the vehicle may not enter a fail-safe driving mode as intended. If this occurs, the vehicle could lose power and stall. While power steering and braking would remain operational, a vehicle stall while driving at higher speeds could increase the risk of a crash.

V. INSPECT INVERTER CONDITION

1. Verify Techstream Configuration

- a. From the menu at the top of the screen, select: Setup / Techstream Configuration.
- b. Continue to the third setup screen: Required Information.
- c. Verify that "US Dealer 1" is selected as the User Type.





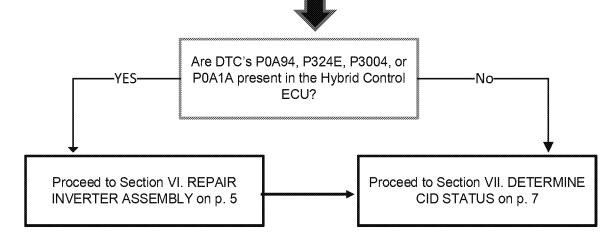
2. PERFORM HEALTH CHECK

a. Using a Techstream, perform a Health Check.



If any hybrid DTCs are found that indicate a safety risk while performing this repair, do not proceed until they have been resolved.

Note: This Safety Recall covers only the specified ECU updates and Inverter repairs, as detailed in these instructions. It does not cover the diagnosis or replacement of any other parts on the vehicle, including the hybrid system.



VI. REPAIR INVERTER ASSEMBLY

Note: Repairing the inverter is required only if DTCs P0A94, P324E, P3004 or P0A1A are present. If these DTCs are not present, skip to section VII. DETERMINE CID STATUS on p 7.

1. DETERMINE REPAIR COMPONENTS BASED ON DTC DETAIL CODE

- a. If multiple DTCs are present, save the freeze frame data.
- b. After saving the freeze frame data, clear codes and confirm what DTCs reset.
- c. If multiple codes return, follow the repair manual diagnosis procedure for the DTC with Freeze Frame Data Occurrence Order value of "1."
- d. Use the correct table below to identify the parts required for repair. The correct parts are listed in the bottom row of each table.

2014 MY PRIUS V

DTC	DTC DETAIL CODE	• IPM	• MG ECU	MG-ECU IPM	MG-ECU CURRENT SENSOR IPM	• INVERTER ASSY
	127			Х		
	172	Х				
	442			Х		
	547		Х			
	548				X	
	549		X			
	550			Х		
	553	X				
P0A94	554		Х			
	555				Х	
	556		X			
	557	X				
	564			X		
	585			X		
	587			X		
	589			X		
	590			X		
P324E	788				Х	
	151				X	
	155		X			
	156		X			
	166		X			
P0A1A	200		X			
	658		X			
	659		X			
	791		X			
	792		X			
	793		X			
	131					X
P3004	132					X
. 000-	800	X				
	801	X				
PARTS & QUANTITY (QTY)		04899-47021 (1) 08887-02809 (2) 04899-47060 (1) 08826-00100 (1) 90430-18008 (1) 00272-SLLC2 (1)	G920H-47040 (1) 04899-47060 (1) 08826-00100 (1)	G920H-47040 (1) 04899-47021 (1) 08887-02809 (2) 04899-47060 (1) 08826-00100 (1) 90430-18008 (1) 00272-SLLC2 (1)	G920H-47040 (1) G920J-52010 (1) 04899-47021 (1) 08887-02809 (2) 04899-47060 (1) 08826-00100 (1) 90430-18008 (1) 00272-SLLC2 (1)	ORDER INVERTER BY VIN

2015-2017 MY PRIUS V

DTC	DTC DETAIL CODE	• IPM	• MG-ECU	• MG-ECU • IPM	MG-ECU CURRENT SENSOR IPM	INVERTER ASSY
P0A94	127			X		
	172	X				
	550			X		
	553	X				
	557	Х				
P324E	788				Χ	
P0A1A	151				X	
	166		X			
	517		X			
	658		X			
	791		X			
	809		Х			
P3004	131					X
	132					Х
	800	X				
	801	Х				
PARTS & 08887-02809 () QUANTITY 08826-00100 (QTY) 90430-18008 (04899-47021 (1) 08887-02809 (2) 04899-47060 (1) 08826-00100 (1) 90430-18008 (1) 00272-SLLC2 (1)	G920H-47040 (1) 04899-47060 (1) 08826-00100 (1)	G920H-47040 (1) 04899-47021 (1) 08887-02809 (2) 04899-47060 (1) 08826-00100 (1) 90430-18008 (1) 00272-SLLC2 (1)	G920H-47040 (1) G920J-52010 (1) 04899-47021 (1) 08887-02809 (2) 04899-47060 (1) 08826-00100 (1) 90430-18008 (1) 00272-SLLC2 (1)	ORDER INVERTER BY VIN



Thermal grease for IPM replacement is NOT interchangeable. Only grease specified for the Prius V inverter can be used. Grease for the Highlander IPM replacement will result in inverter failure if used.

2. TO REPAIR THE INVERTER, CLICK ON THE RELEVANT LINK BELOW:

2014 Prius V: Intelligent Power Module Transistor Removal

2015 Prius V: Intelligent Power Module Transistor Removal

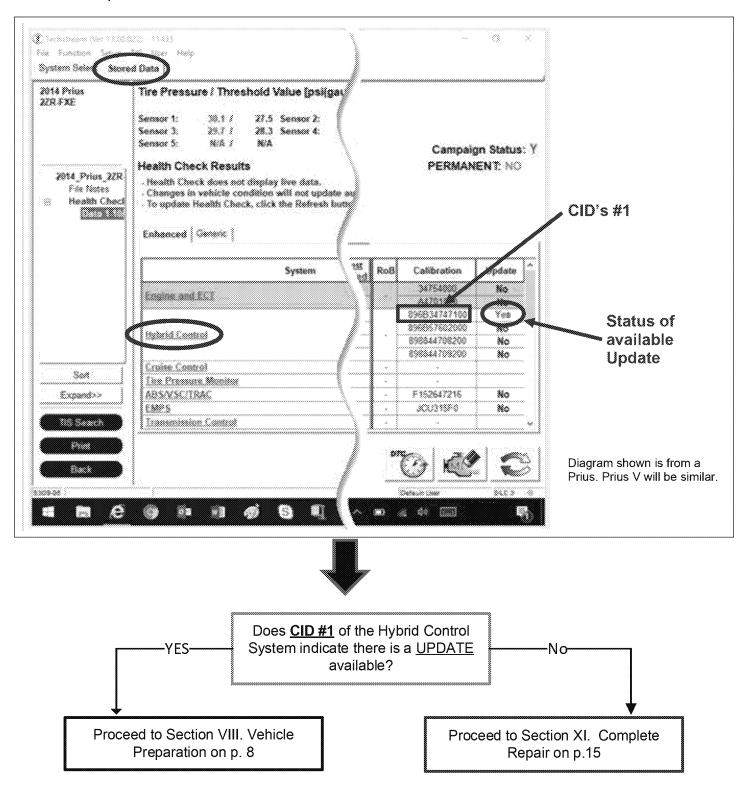
2016 Prius V: Intelligent Power Module Transistor Removal

2017 Prius V: Intelligent Power Module Transistor Removal

VII. DETERMINE CID STATUS

1. DETERMINE STATUS of HYBRID CONTROL SYSTEM CIDs

- a. Locate the <u>Update</u> column for the Hybrid Control System in the <u>Stored Data</u> tab.
- b. Determine the status of CID's #1 for the Hybrid Control ECU; indicated by a <u>YES</u> or <u>NO</u> in the Update column.



VIII. VEHICLE PREPARATION

The ECU reprograming procedure is detailed in <u>T-SB-0134-16</u>. Reference this Bulletin for additional detailed procedures and information.

1. VEHICLE BASICS

- a. Confirm the following conditions:
 - Vehicle in the IG position (engine off).
 - Transaxle in Park.
 - Parking brake engaged.
 - Turn off all electrical accessories (i.e. Headlights, wipers, climate control, audio system, etc.)

2. CONNECT THE 12v BATTERY TO A POWER SUPPLY (GR8)

- a. Connect the DCA-800, GR8 or other type of a power supply (not a battery charger) to the 12v battery.
- b. Select the Power Supply Mode from the Charge Menu of the GR8.



A power supply *MUST* be used during reprogramming. ECU damage will occur if the battery voltage is not properly maintained during this re-flash procedure.

Note: A power supply must be connected directly to the 12v battery terminals and <u>NOT</u> the remote jump posts under the hood (if equipped).

3. VERIFY TECHSTREAM SETUP

- a. Verify that the Techstream meets the following conditions:
 - Current version of software is installed (reference TIS for latest software version).
 - The Techstream battery is fully charged. If not, connect the Techstream to a 120v source.
 - The DLCIII cable is in good condition.



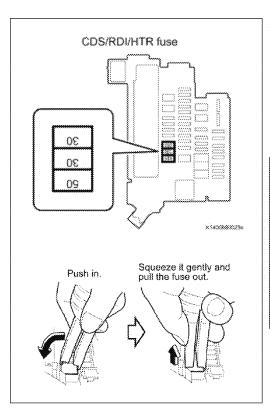
The Techstream battery must be maintained during the update procedure. If necessary, plug the Techstream into a 120v outlet to ensure that a failure does not occur.

Note: If the Techstream communication with the vehicle fails during the re-flash procedure, the ECU will be damaged and must be replaced.

4. MAINTAIN BRAKE SYSTEM PRESSURE

a. Depress the brake pedal fully 2 times within 2 seconds.

Note: You may hear the hydro-boost pump run for a few seconds when completing these steps. This procedure will prevent the pump from running during the calibration update procedure.



5. REMOVE JOINT FUSE FROM ENGINE ROOM FUSE BOX

- a. Confirm the joint fuse orientation before removal because the fuse can be installed in either direction.
- b. Using the fuse puller remove the joint fuse that encases the CDS (30A), RDI (30A) and HTR (50A).



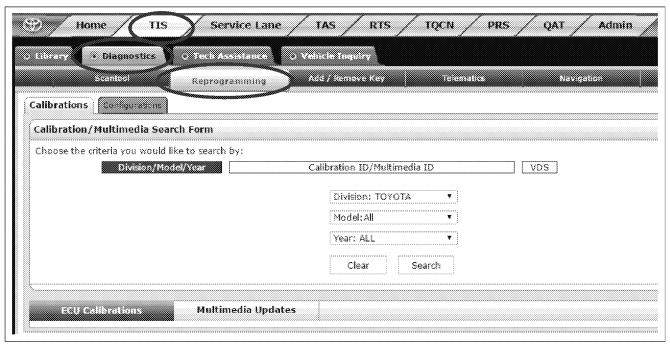
Permanent damage to the ECUs can happen if these fuses are not removed.



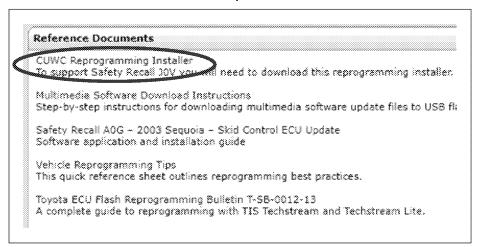
Removing these fuses will stop the vehicle from performing onboard diagnostic tests during the update, which could cause the update to fail and damage the ECU.

IX. CUWC APPLICATION

- 1. INSTALL CUWC FILE INSTALLER (Only required once for each Techstream)
 - a. In TIS, select the following:
 - TIS / Diagnostics / Reprogramming



- b. On the right side of the screen, select the following from the Reference Documents:
 - CUWC Reprogramming Installer
 - Follow the on-screen instructions to complete the installation.



Note: The installation of the CUWC Reprogramming Installer will only need to be completed one time for each Techstream.

(cont. on next page)





Permanent damage to the ECUs will occur if the following actions are attempted during the CID update procedure:

- Attempt to close the CUWC installer
- Attempt to close the Calibration Wizard
- Turning off the vehicle's ignition
- Turning off the Techstream
- Unplugging the Techstream from the vehicle while programming is in process

The following message will appear when the CUWC installation application is running. This image cannot be closed manually. When the installation of all necessary CIDs is complete, the image will close.

Message displayed during CID update process:

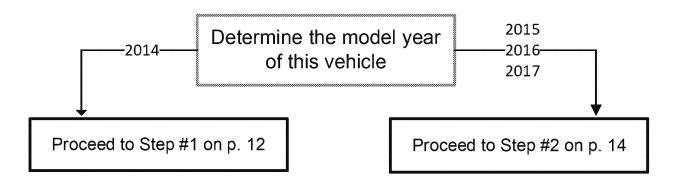
CUWC is starting... Lancement de CUWC... CUWC esta iniciando...



- <Caution>
- Do not operate Techstream
- When the CUWC application or PC Stop unexpectedly, please recover ECU from CUW application.
- <Attention>
- Ne pas utiliser Techstream.
- Lorsque l'application CUWC ou le PC s'arrete inopinement, veuillez restaurer l'ECU depuis l'application CUWC.
- <Cuidado>
- No opere Techstream.
- Si la aplicacion CUWC o la PC se detienen inesperadamente, por favor recupere ECU de la aplicacion CUW.

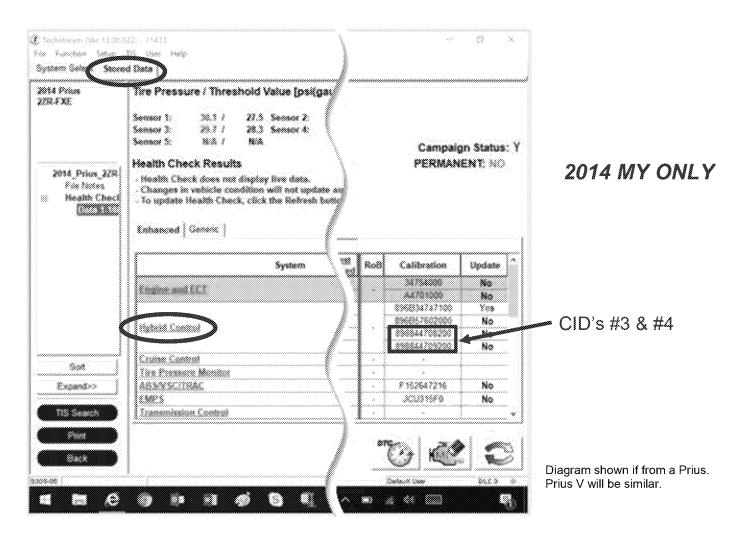
(cont. on next page)

X. CID INSTALLATION



1. 2014 MY: INSTALLATION OF CIDS

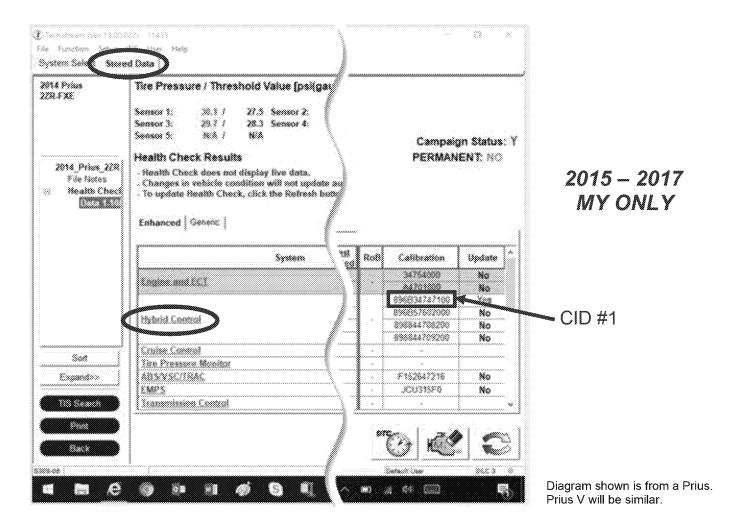
- a. Identify the Hybrid Control CID's #3 & #4 from the Stored Data tab.
- b. Referencing the chart on the next page, identify the matching CID #3 & #4.
- c. Select the Group # link (blue text) to begin the update process.
- d. Follow the instruction on the screen to complete the installation.
- e. When CID installation is completed, skip to Section XII. COMPLETE REPAIR on p. 15.



Model	CID#	Original	Current
		896B34711000	
		896B34711100	
		896B34727000	
	CID #1	896B34727100	2014 Prius V #1
	CID#1	896B34727200	896B34761100
		896B34727300	896B54705100
		896B34761000	898844706400
		896B34764000	898844707400
		896B54705000	
2014	CID #3	896B54705100	
Prius V	CID #2	896B54709000	
		896B54712000	
		89884470 6100	
	015 110	89884470 <i>6200</i>	
	CID #3	89884470 <i>6300</i>	
		89884470 6400	
		89884470 7100	
		89884470 7200	
	CID #4	89884470 7200	
		89884470 7400	
		896B34711000	
		896B34711100	
		896B34727000	2014 Prius V #2
		896B34727100	896B34761100
	CID #1	896B34727100	896B54705100
		896B34727300	898844712300
		896B34761000	898844713300
		896B34764000	030011/13300
		896B54705000	
2014		896B54705100	
Prius V	CID #2	896B54709000	
		896B54712000	
		89884471 2000	
	CID #3	89884471 2100	
		89884471 2200	
		89884471 2300	
		89884471 3000	
	015 "	89884471 3100	
	CID #4	89884471 3200	
		89884471 3300	

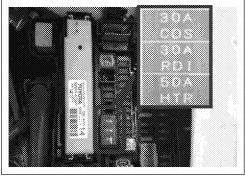
2. 2015 - 2017 MY: INSTALLATION OF CIDS

- a. Identify the Hybrid Control CID #1 from the Stored Data tab.
- b. Referencing the correct chart below, identify the chart that has the matching CID #1.
- c. Select the link (blue text) on that row to begin the update process.
- d. Follow the instruction on the screen to complete the installation.



Model	CID#	MY	Original	Current
2015 - 2017	CID #4	2015-2016	896B347 550 00	<u>896B34755100</u>
Prius V	I CID #1	2017	8998347 530 00	899834753100

XI. COMPLETE REPAIR

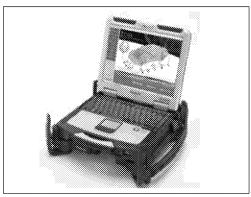


1. REINSTALL JOINT FUSE INTO ENGINE ROOM FUSE BOX

- a. Confirm the joint fuse orientation before reinstalling because the joint fuse can be installed in either direction.
- b. Reinstall the joint fuse that encases the CDS (30A), RDI (30A) and HTR (50A).



BE SURE TO ORIENT THE FUSE AS SHOWN ON THE FUSE BLOCK COVER.



2. PERFORM VERIFICATION HEALTH CHECK

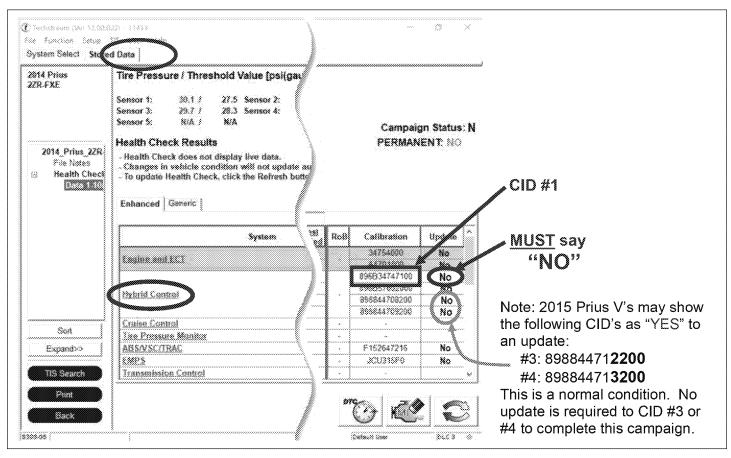
- a. Using a Techstream, perform a Health Check.
- c. Clear DTCs that may have set during the re-flash procedure.
- d. Re-run the Health Check to confirm that no DTCs reappear.



THIS VERIFICATION HEALTH CHECK IS NECESSARY to update the results and CIDs to the National database.

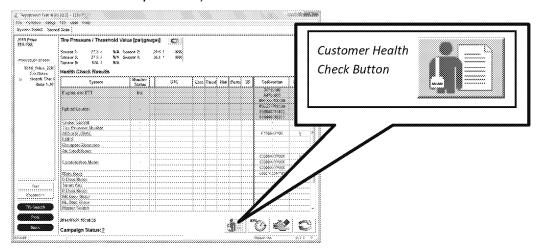
3. CONFIRM CID UPDATE

- a. On the Stored Data tab, confirm the following for the Hybrid Control System:
 - The Update column lists "No" for CID #1

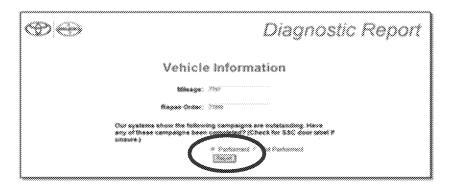


4. PRINT CUSTOMER HEALTH CHECK REPORT

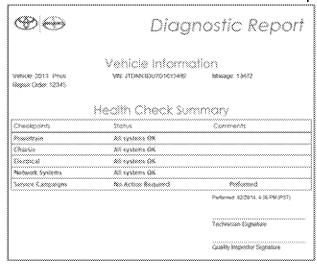
a. From the Stored Data tab, select the Customer Health Check Report button (TIS will launch when button is pressed).



- b. Log in to TIS.
- c. Input Vehicle Mileage and Repair Order number.
- d. Check the "Performed" campaign button for campaign 20TA10.
- e. Select the Report button.



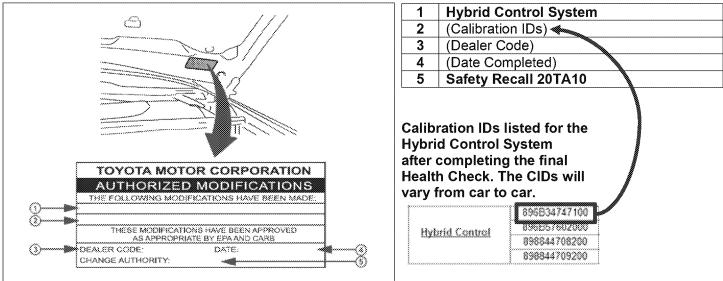
a. Confirm Customer Health Check Report information is correct.



- b. Print Customer Health Check Report from TIS.
- c. Sign and provide to the customer.

5. ATTACH THE AUTHORIZED VEHICLE MODIFICATION LABEL

- a. Fill out the label.
- b. Affix the label to the under-side of the hood.



✓ VERIFY REPAIR QUALITY >

- Confirm all ECM Calibration has been updated successfully to the NEW CID.
- Confirm that the Authorized Modification Label has been installed

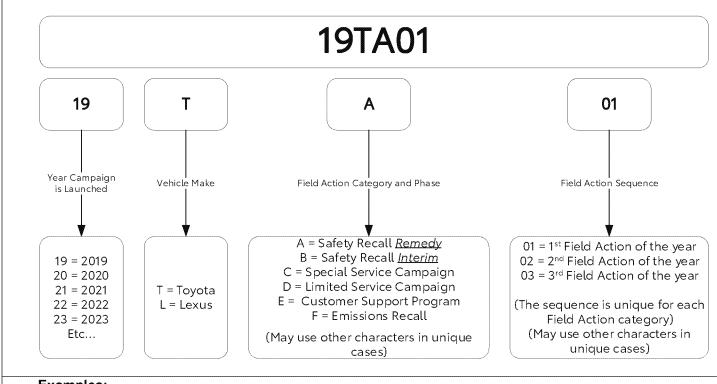
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21TE05 = Launched in 2021, Customer Support Program, 5th Customer Support Program Launched in 2021